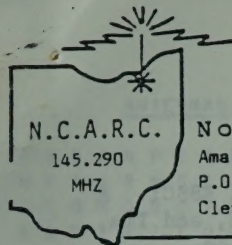


Providing Emergency Communications for:

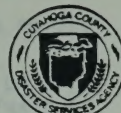


N.C.A.R.C. North Coast  
145.290  
MHZ  
Amateur Radio Club  
P.O. Box 30529  
Cleveland, OH 44130



Division of Emergency  
Assistance & Planning

COUNTY OF  
CUYAHOGA



President: Rick Wells, K8SCI 779-8999	Vice-President: Bob Mills, K8TTZ 431-9492
Treasurer: Glenn Christman, WD80MW 661-3656	Secretary: Steve Wolf, WB8IKD 777-1177
Trustees: Rol Randolph K8ATQ, Pete Harmon W1BKZ, Tom Kopcak N8ETP, Pauline Wells KA8FOE, Dick Dell WD8ISB, Dave Curry K88TT, Shirley Lantz KA8Y, Dirk Gastaldo KD8ZI, Ed Zorn KD8ZK.	

NORTH COAST COMMUNICATOR - JULY/AUGUST 1985

MEETING NOTICE BOARD MEETING, SUNDAY 4 PM JULY 28, 1985 AT GLENN'S QTH (WD80MW), 2327 NORTH AVE, PARMA, OH.

MEETING NOTICE GENERAL MEETING, THURSDAY 7:30 PM AUG 1, 1985, N. OLMSTED BRANCH OF THE CUYAHOGA PUBLIC LIBRARY 27425 BUTTERNUT RIDGE RD (BETWEEN DOVER CENTER AND LORAIN/PORTER ROADS). \*\* SEE ENCLOSED MAP \*\*

PROGRAMS: 1. EMERGENCY ASSISTANCE PROGRAM DISCUSSION

- I. NCARC E.A.P. COMMITTEE - The purpose of the committee and the participants
  - II. WHAT IS E.A.P.? - A) Explanation of E.A.P. B) Comparison of Government vs. Red Cross role,  
1. When disaster threatens, 2. When disaster strikes C) Other disaster authorities
  - III. NCARC INVOLVEMENT - A) Objectives B) Major activities C) Possibilities for individual involvement D) Benefits to NCARC and its members
2. NORTH COAST 1985 FIELD-DAY RESULTS, AS WELL AS A FIELD-DAY VCR PROGRAM PUT TOGETHER BY DIRK KD8ZI.
3. FOX HUNTING - A VCR PROGRAM PUT TOGETHER BY THE LAKE COUNTY A.R.A.

\*\* COFFEE, DONUTS, 50/50 RAFFLE, DOOR PRIZES, EYEBALL QSO'S, EVERYONE IS WELCOME, BRING A FRIEND, SEE YOU THEN

NORTH COAST WELCOMES NEW MEMBERS PLEASE HELP MAKE THESE NEWEST MEMBERS FEEL AT HOME

WD8AJF DAN, WBCHA STEVE, N8EIJ KEN, N8GJR JIM, K8MDC FRED, W8NXT FERD, K8TQR DENNIS, W8BUDA FRED, W8BUPA RUSS, AND K8VJG RON.

CALL SIGN CHANGES: N8ERA (ED) IS NOW KD8ZK, K8VTO (DIRK) IS NOW KD8ZI, K8WCPC (JOHN) IS NOW N8GNL

CONGRATULATIONS TO THOSE THAT HAVE RECENTLY UPGRADED

TO TIM, K8VIC WHO PASSED HIS ADVANCED-CLASS AT THE WESTPARK EXAM JULY 13TH.  
TO DIRK, KD8ZI WHO PASSED HIS EXTRA-CLASS AT THE NOARSFEST JULY 20TH.

NORTH COAST FOX HUNTS EVERY SECOND SATURDAY OF EACH MONTH. HUNTERS SHOULD BE READY TO GO AT 7:00 PM AND MEET AT THE REAR OF THE N. OLMSTED BRANCH OF THE CUYAHOGA PUBLIC LIBRARY. THESE HAVE BEEN VERY SUCCESSFUL AND LOADS OF FUN. THE NEXT FOX HUNT IS AUGUST 10TH. THE TWO-METER SIMPLEX FREQUENCY THAT WILL BE USED WILL BE ANNOUNCED AT THE HUNTERS MEETING. COME EQUIPPED, OR COME AND RIDE WITH OTHER HUNTERS WHO ARE TRYING TO FIND THE FOX. ALL MEET FOR PIZZA AND SUCH AT FRANKIES PIZZA ON GREAT NORTHERN BLVD AFTERWARDS. EVERYONE IS WELCOME...

JRTH COAST A.R.C. WOULD LIKE TO BECOME AN A.R.R.L. AFFILIATED CLUB THERE ARE MANY BENEFITS THAT WOULD BE TO OUR CLUB'S AFFILIATION WITH THE A.R.R.L.. THE REQUIREMENT OF 50 PERCENT HAS THUS FAR PREVENTED NORTH COAST FR APPLYING. IF YOU ARE NOT ALREADY AN A.R.R.L. MEMBER, WE HAVE ENCLOSED AN INFORMATION AND APPLICATION FORM WITH THIS NEWSLETTER FOR YOU TO CONSIDER. IF YOU DO DECIDE TO JOIN (AND WE HOPE YOU WILL), PLEASE LET GLENN (WD80MW) OUR TREASURER KNOW AS HE IS KEEPING A RECORD OF OUR CURRENT PERCENTAGE. NORTH COAST WILL APPLY TO BE AFFILIATED ONCE WE HAVE REACHED THE FIFTY PERCENT MARK.



MINUTES OF THE JUNE 6, 1985 REGULAR MEETING

The meeting was called to order at 1940 hours by Rick, K8SCI. A volunteer committee consisting of Paul, N8CKV, Pauline, KA8FOE, and Tim, KA8VIC, was appointed to count the votes for the Club's election.

BYLAWS -- Copies of the proposed By-Laws were handed out. Discussion followed on the revisions. Questions relating to the bonding of the Treasurer, insurance and other matters ensued. It was determined that the proposed new By-Laws should be referred back to committee. A request for additional volunteers for this committee brought responses from John, N8GNL and Tim, KA8VIC.

The Treasurer's report was given and accepted. The minutes of the last meeting were accepted as published.

FIELD DAY -- Shirley, KA8Y, expressed concern over the lack of response to her request that operators in this year's Field Day contact her. A show of hands was requested and it was apparent that there would be many operators there. Equipment and help needs were stated. Shirley made a motion that the Club provide \$200.00 for Field Day expenses which was approved.

FOX HUNT -- Frank, KA8BJA, reminded everyone about the Fox Hunt scheduled for June 8. It is hoped that it will become a monthly event.

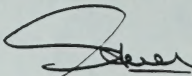
Bill, WB8NAQ, asked about Club ARRL affiliation. Glenn, WD8OMW, reported that the Club has lacked the 50% ARRL membership that it needs to become affiliated. It appears from the trend in the renewals, that we may now get the 50% we need.

ELECTIONS -- The election ballot counting was completed. Rick, K8SCI, reported that two members, Dave, N8ETY, and Tom, KV8M, have chosen not to accept a position should they be elected. Rol, K8ATQ, and Ed, N8ERA, were elected to three-year terms. There was a tie between Dick, WD8ISB, and Dirk, KA8VTO. Dirk requested the two-year term due to his possible relocation back to California. Dick would then fill the remaining three year term.

EAP ACCEPTANCE -- Rick, K8SCI, read a letter addressed to the Club from the Cuyahoga County Division of Social Services, Office of Emergency Assistance and Planning (EAP). This organization fills the gap left by the deorganization of the County DSA. This letter dealt with the forming of a working relationship between the EAP and the NCARC. Bob, W8IO, made a motion to support this relationship. Discussion followed on concerns about the (undefined) commitment and the past history of the County involvement in disaster planning. Bob withdrew his motion and Steve, WB8IKO, made a motion that the NCARC commit itself to moving forward and forming support to assist the EAP in the best possible manner. This motion was passed. A committee sign-up sheet was made available to members who wished to participate in an "EAP Committee". It is hoped a speaker from the EAP will be available to speak at a meeting.

Paul, N8CKV, commended the 146.82 group for their excellent service in the recent Trumbull County Disaster.

The meeting was adjourned at 2147 hours.

  
Steve  
WB8IKO  
Acting Secretary



# ANTENNAS by STEVE WOLF, WB8IKO

## WORDS TO FIND IN PUZZLE

A B S O R P T I O N I F B K B H K H X N L O U R U  
M K T U R N S T I L E H P V E R T I C A L E B F D  
: C O N D U C T O R E V W N X M N C Q J O E N N P  
R A D I A T I O N M B X B P G C N Q D C A F U B A  
E P Z H P M P I N S T A L L A T I O N M H O G A N  
M G E N D R A E N I L L O C G R N R Q Z R X D A C  
S M S L C N C I T I S A R A P N A X C G O P P A T  
H H E P O K C Q Q N B M A F E E D S N U P O M F E  
T A L I Q P G Q P B I L W B D Z T W I Y L P L E X  
N L I C N O I T A Z I R A L O P E I N T S A U N C  
E F B K F O O D N P E G O N T K F X L W I R R O I  
L F O U S N B A N D W I D T H R R Q N L Q C F C T  
E I M P E D A N C E A L F L A P A L N C E G F S A  
V N N F I X E D C K Y A G I L I N P U O P T O I T  
A S N G B M F I P C O E C A T A H R K S Y O A D I  
W G V H F R P O G D N F N T B A R F P N W P H S O  
K K J L N O Q I X J M E G F C E G H M K I N M T N  
U M C Q R A O L A C I L E H N V O L T A G E J N V  
N N J T A J L N Q I X J M T A N N E T N A G F C G  
H M O K I C I L O B A R A P Q U A D N M T U M F C  
Q S A N O J J U H F M P P S C I B M O H R D H D P  
I U O I T D E Z I M I T P O R E T N E C A S B N E  
M O D A Q N H D E S I G N O Z C P G Z U H U S N F  
P G N G I F G P O Z U F L W S V O N Q A G Z D U X  
B Z A F D U M M Y D W A V E D E H C T A M M T P H

ABSORPTION	LF
ANTENNA	MATCHED
BANDWIDTH	MOBILE
BEAM	OPTIMIZED
CENTER	PARABOLIC
CIRCULAR	PARASITIC
COLLINEAR	PICKUP
CONDUCTOR	PLANE
CURRENT	POLARIZATION
DESIGN	QUAD
DIPOLE	RADIATION
DISCONE	RHOMBIC
DUMMY	SATELLITE
EXCITATION	SHF
FEED	TRAP
FIXED	TURNSTILE
GAIN	UHF
GROUND	VERTICAL
HALF	VHF
HELICAL	VOLTAGE
HF	WAVE
IMPEDANCE	WAVELENGTH
INSTALLATION	YAGI
ISOTROPIC	

## ATEUR RADIO ACTIVITY AT THE CUYAHOGA COUNTY FAIR - AUGUST 5 THRU AUGUST 11

THE AMATEUR RADIO OPERATORS HAVE BEEN GIVEN A SPACE AT THE CUYAHOGA COUNTY FAIR AGAIN THIS YEAR. THE FAIR RUNS FROM AUGUST 5 THRU AUGUST 11. WE WILL BE LOCATED IN THE JR. FAIR BUILDING RIGHT INSIDE OF GATE 5. ANY AND ALL AMATEURS WHO ARE WILLING TO DONATE EQUIPMENT AND/OR TIME, PLEASE CONTACT LIN SHAW, WD8SDP AT 235-3912 AFTER 4:00 PM WEEKDAYS OR ABOUT ANY TIME ON WEEKENDS. THERE WILL BE FREE PASSES TO ALL WHO VOLUNTEER, BUT I WILL HAVE TO KNOW IN ADVANCE WHO WILL BE THERE. SET-UP DAY WILL BE SATURDAY AUGUST 3. THERE WILL BE SECURITY THERE TO PROTECT ANY AND ALL EQUIPMENT. THIS IS A GOOD CHANCE TO DEMONSTRATE AMATEUR RADIO TO THE PUBLIC AND TO ASSIST ANY SCOUT IN EARNING THEIR RADIO MERIT BADGE. PLEASE JOIN IN AND - "SCOUT THE WORLD THRU AMATEUR RADIO".

73, LIN - WD8SDP

## NORTH COAST FIELD-DAY 1985

FIELD-DAY, 1985; HELD IN NORTH RIDGEVILLE, OHIO AT THE WJTB TRANSMITTER SITE WENT VERY WELL. THE ANTENNAS WORKED TO PEAK MAXIMUM; FLAT MATCHES; AND, BELIEVE IT OR NOT, NO INTERMOD INTERFERENCE.

THE TOTAL POINTS WERE ABOUT 1,500 MORE THAN LAST YEAR WITH TWO LESS TRANSMITTERS. THIS YEAR, BETWEEN CONTACTS AND BONUS POINTS WE RACKED UP 4,578 POINTS. THE SEVENTY-FIVE METER BAND DID THE BEST WITH 403 CONTACTS; FORTY METERS CAME IN SECOND WITH 291 POINTS.

TOM, KV8M WON THE PRIZE FOR TOP CW AND RICK, KB8CI WON THE PRIZE FOR TOP PHONE. ALSO, CONGRADULATIONS TO CHUCK, K8RSH; JACK, WB8OGN; AND BILL, WB8NAQ WHO ALSO DID VERY WELL ON PHONE.

I WANT TO PERSONALLY THANK ALL THOSE WHO PARTICIPATED IN MAKING FIELD-DAY GO SO WELL. THOSE WHO DIDN'T MAKE IT MISSED OUT ON A GOOD TIME AND GOOD KIELBASI HOT DOGS.

NEXT YEAR I EXPECT NORTH COAST WILL DOUBLE TO TRIPLE THE 1984 SCORES. I CERTAINLY HOPE EVERYONE HAD AS GOOD A TIME AT FIELD-DAY AS MYSELF!

73, SHIRLEY - K8BY



FROM DIRK - KD8ZI

Credit goes to the July issue of the NOARS LOG for this idea. Following is a list of all of the 800 phone numbers that I could find in the most recent issues of QST, CQ, 77 Worldradio and Ham Radio. Since 800 numbers are expensive to maintain, you should only use them for price quotes and orders.

Radio dealers (including transceivers, etc.):

Amateur Electronic Supply	800-362-0290
Britt's 2-Way Radio	800-241-2027
C-Comm	800-426-6528
Colorado COMM Center	800-227-7373
EGE, Inc.	800-336-4799
Ham Radio Outlet	800-854-6046
Ham Station, The	800-523-7731
Heaster, H. L., Inc.	800-824-7888
Jun's Electronics	800-882-1343
La Cue Inc.	800-637-3300
Madison Electronics Supply	800-231-3057
Memphis Amateur Electronics, Inc.	800-238-6168
Midwest Amateur Radio Supply	800-328-6365
Missouri Radio Center	800-821-7323
Radio Warehouse	800-433-3203
TNT Radio Sales Inc.	800-328-0250
Texas Towers	800-272-3467
VHF Shop, The	800-HAM-7373

Accessories dealers (including antennas, parts, etc.):

All Electronics Corp.	800-826-5432
Amateur-Wholesale Electronics	800-327-3102
Antenna Bank	800-336-8473
CeCo Communications, Inc.	800-221-0860
Certified Communications	800-433-WIRE
Fuller, R. M., Co.	800-626-6662
MHz Electronics	800-528-0180
Van Valzah Co., H. C.	800-HAM-0073
Westcom	800-854-1927

FIRST NORTH COAST FOX HUNT      SATURDAY JUNE 8, 1985, NORTH OLMS TED, OHIO

THE HUNT BEGAN AT 7:22 PM. THE HUNTERS WERE: CAR 1 - KC8QN (RON) AND N8BLL (TOM). CAR 2 - WB8IKO (STEVE) AND WIFE MARY. CAR 3 - KA8BJA (FRANK), N8FCX (RON), AND KA8Y (SHIRLEY). THE HUNTED FOX WAS KB8CI (RICK) AND WIFE KA8FOE (PAULINE).

THE FOX HUNT TURNED OUT TO BE QUITE INTERESTING. THE FIRST PEOPLE AT THE FOX'S LOCATION WAS CAR 3 (TOO BAD THEY DIDN'T SEE THE FOX - - LAYING ON THE STREET UNDER A PICK-UP TRUCK MOUNTING HIS ANTENNA TO THE INSIDE OF THE WHEEL WELLS. CAR 1 WAS REALLY EXPECTED TO BE THE FIRST TO FIND THE FOX SINCE THAT CAR WAS THE ONLY ONE EQUIPPED WITH A DOP-SCANNER (WHICH IS GREAT FOR GETTING A QUICK FIX ON A FOX).

BUT AFTER ALL WAS SAID AND DONE, WB8IKO (STEVE) AND HIS WIFE MARY ACTUALLY FOUND THE FOX FIRST. RICK AND PAULINE WERE LAYING DOWN IN THE FRONT SEAT OF KB8SH'S (CHUCK) MAROON PICK-UP TRUCK. GUESS STEVE'S THREE ELEMENT YAGI WORKS PRETTY DARN GOOD.

CAR 2 FOUND THE FOX IN 22 MINUTES, CAR 1 FOUND THE FOX 16 MINUTES LATER, AND CAR 3 CAN LAGGING ALONG 50 MINUT... LATER YET!!!! AFTERWARDS, EVERYONE MET AT FRANKIE'S PIZZA AND HAD SOMETHING TO EAT AND DRINK WHILE HASHING OVER THE HUNT. OF COURSE, WB8IKO (STEVE AND HIS WIFE MARY) WILL BE THE FOX NEXT MONTH (JULY).

I WONDER IF STEVE WILL HIDE IN A PARTROL CAR???

73, SHIRLEY - KA8Y



ORTH COAST MEMBERS HELPED AMERICAN RED CROSS DURING NEED WHEN THE TORNADOS RIPPED APART NORTHEASTERN OHIO ON MAY 31, 1985, MANY OF OUR MEMBERS HELPED BY VOLUNTEERING THEIR TIME TO THE AMERICAN RED CROSS. THE NORTH COAST MEMBERS WHO HELPED INCLUDED: KB8A - DAN SARAMA, WD8AJF - DAN WADSWORTH, KA8CKZ - BILL JONES, KD8EQ - DICK STUART, N8ERA (NOW KD8ZK) - ED ZORN, N8ETQ - DAN HARLAN, N8ETY - DAVE KIFER, N8FCQ - CASEY NOWAKOWSKI, N8FKT - BOB BASSETT, N8GJR - JIM NESTOR, W8BIKO - STEVE WOLF, KC8KI - JOHN BADDOUR, W8BOGN - JACK SKINNER, K8RZP - JOHN PASTOR, K8SCI - RICK WELLS, W8BUDA - FRED SZABO, W8BUPA - RUSS SAEPIC, AND KA8VTO (NOW KD8ZI) - DIRK GASTALDO. WE HOPE WE DIDN'T FORGET ANYONE. IF THERE WERE ANY OTHER MEMBERS WHO HELPED BUT WASN'T MENTIONED, PLEASE LET RICK WELLS (K8SCI) KNOW AT 779-8999. MANY OF THE ABOVE MEMBERS WERE CALLED AT MID-NIGHT AND WERE IN WARREN, OHIO AT 2 AM SAT.. THANK YOU TO ALL THAT HELPED, THE AMERICAN RED CROSS AND THE CITIZENS OF THE AFFECTED AREA SURE APPRECIATED IT.

NORTH COAST MEMBERS PROVIDED COMMUNICATIONS FOR THE ROCKY RIVER 5 MILE RUN ON JUNE 9TH

MANY THANKS GO OUT TO THE FOLLOWING WHO HELPED WITH VOLUNTEERING THEIR TIME:

KA8CKZ - BILL JONES, N8ETP - TOM KOPCAK, W8NAQ - BILL REED, K8SCI - RICK WELLS, AND KA8VIC - TIM HITESMAN

TREMENDOUS AMATEUR RADIO HELP FOR THE N.O.S.O. TOURNAMENT JULY 5, 6, AND 7TH

MANY THANKS GO OUT TO THE FOLLOWING WHO HELPED WITH VOLUNTEERING THEIR TIME:

WD8AJF - DAN WADSWORTH, W8BBJL - RON RUDDLE, N8BTB - STEVE STEVISON, AF8C - GLENN WILLIAMS, KA8CKZ - BILL JONES, KD8CY - DAVE WINEMILLER, KD8EQ - DICK STUART, KD8ER - JEAN WINEMILLER, W8ERA - LEE GEORGIA, N8ETP - TOM KOPCAK, KC8F - HEINZ WIMMER, N8FCQ - CASEY NOWAKOWSKI, KA8FOE - PAULINE WELLS, N8GJR - JIM NESTOR, N8GNL - JOHN JAILER, WD8INO - STEVE FERRARO, W8IO - BOB ALLEN, KD8JQ - DON JASON, KV8M - TOM KAPSAR, W8BOGN - JACK SKINNER, WD8OMM - GLENN CHRISTMAN, WD8OYO - DAVE EARNEST, WD8QAC - AL DALGLEISH, K8SCI - RICK WELLS, WD8SDP - LIN SHAW, KBTTZ - BOB MILLS, KD8UN - VIRDEN BECKMAN, KA8WCK - ROY GLASSCO, W8WXR - ROGER BURGESS, KD8ZI - DIRK GASTALDO. (I HOPE WE DIDN'T FORGET ANYONE).. THE NORTH OLMSTED SOCCER ORGANIZATION APPRECIATED THE FINE COMMUNICATIONS PROVIDED THIS YEAR AND IS LOOKING FORWARD TO WORKING WITH US AGAIN NEXT YEAR.

NORTH COAST FOX HUNT - SATURDAY JULY 13TH

ANOTHER FINE TIME WAS HAD BY ALL ATTENDING THE NORTH COAST SECOND MONTHLY FOX HUNT.

STEVE (W8BIKO) THE JULY FOX DID VERY WELL BY LAYING ON THE GROUND IN THE SPRUCE ELEMENTARY SCHOOL AREA. BUT IN A SHORT WHILE, SIX MINUTES ACTUALLY, RICK (K8SCI) & PAULINE (KA8FOE) FOUND THE FOX. IN ORDER FROM SECOND TO LAST WERE: RON (KC8QN) & LARRY (WD8PHI), FRANK (KA8BJA) & STEVE (N8BTB), ROL (K8ATQ) & SON, DON (N8FKS) & SON, RON (N8FCX) & SHIRLEY (K8BY). (BY THE WAY, RON AND SHIRLEY NEVER EVEN FOUND THE FOX AND THEY WERE EVEN USING STEVE'S (THE FOX) ANTENNA.

ALL MET AT FRANKIES FOR PIZZA LATER TO HASH OVER THE HUNT. GOOD LUCK TO ALL WHO GO SEARCHING FOR THE AUGUST FOX - - RICK & PAULINE (K8SCI & KA8FOE).

73, SHIRLEY - K8BY

UPCOMING HAMFEST

- AUGUST 18 - SUNDAY - 28TH ANNUAL WARREN HAMFEST AT THE TRUMBULL BRANCH OF KENT STATE UNIVERSITY, WARREN, OHIO  
INTERSECTION OF STATE ROUTE 5 BYPASS AND STATE ROUTE 45. FLEA MARKET OPENS AT 6:00 AM.  
REGISTRATION IS \$3.00 AT GATE, UNDER 12 FREE. TALK-IN ON THE W8VTD 146.37/97 REPEATER.
- SEPTEMBER 14 - SATURDAY - 1ST ANNUAL TWENTY OVER NINE A.R.C., YOUNGSTOWN, OH: GREEN ACRES LAKE PARK CAMPGROUND  
15 MILES WEST OF YOUNGSTOWN, EXIT 54 INTERSTATE 76 AND STATE ROUTE 534. NORTH ON RT 534  
1,000 FEET TO CREED RD., EAST 1,000 FEET ON CREED TO ENTRANCE. ADMISSION IS \$2.00  
TALK-IN ON 147.915/315 RPT OR 146.52 SIMPLEX (GROUNDS OPEN 8 AM FOR SET UP) 9 AM TO 5 PM
- SEPTEMBER 21 - SATURDAY - CLEVELAND HAMFEST BANQUET AT HARLEY HOTEL, MIDDLEBURG HTS, OHIO
- SEPTEMBER 22 - SUNDAY - CLEVELAND HAMFEST AND COMPUTER SHOW, CUYAHOGA COUNTY FAIRGROUNDS, BEREA, OHIO.  
SEE ENCLOSED CLEVELAND HAMFEST FLYER.



# Disaster brings home impact of technology

By JAMES NESTOR

Friday nights at the Nestor house are reserved for pizza, television and decompressing at the end of the week.

Last Friday night started out that way. By mid-evening, I was happily ensconced in my easy chair, sipping a diet soft drink, watching cable TV and typing a few notes on my portable computer.

If by now, you are expecting a punch line, you are correct. The rest of the evening was one of a kind. The television program, and my complacency, were interrupted by reports of the tornado activity in Canada, Pennsylvania and northern Ohio.

Through the electronic marvel of TV's weather radar, I watched the path of the twisters, noting with a selfish sense of relief that they were not headed my way. I turned on my amateur radio to see if there was any activity concerning the tornadoes.

What I heard on the radio was an urgent request for amateur radio operators to travel to the site of the devastation in Trumbull County to assist the Red Cross with emergency communications. About midnight, I packed my radio gear and some cold pizza, met a friend and headed for Red Cross headquarters downtown.

I would like to share some of that odyssey with you this week, including some observations about the role of technology in our lives, and a couple of comments about computers.

The first challenge was to decide what to take with me. Of course, I knew that my portable amateur radio equipment would be needed for communications. I packed the two-meter FM rig, a magnetic mount antenna and all the spare batteries I could find.

I threw in the camera bag, in case the Red Cross needed any photos for documentation. I usually keep spare film in the freezer (it keeps longer that way), so I loaded several rolls into the bag.

I instinctively picked up the brief case with the Epson portable computer as I carried flashlights and the other hardware on the first trip to the car.

## BUSINESS BYTES

Then I turned my attention to the personal items I might need on the trip. A jacket, a change of clothes and socks, and a sleeping bag made their way to the trunk of my car. Within very few minutes, I was en route and in radio communications with other hams on their way to the Red Cross.

The reason we stopped at the local Red Cross office was to be briefed on the situation, and to receive credentials to get us past the police and National Guard. Concerned citizens and curiosity seekers had already flooded the highways into the area, creating a massive traffic jam.

The first item of technical interest was that one member of the group, who was driving a four-wheel-drive vehicle, was asked to transport a gasoline generator to supply electricity to the headquarters building in Warren.

In the aftermath of the tornadoes, there was a total absence of technical resources I had been enjoying earlier in the evening. Electrical service was interrupted throughout the area and telephone lines were severed. Many highways were blocked by fallen trees and debris.

We arrived in Warren about 4 a.m. to find the town entirely dark. We contacted the Red Cross on the radio to receive final instructions. They told us how to get there, and cautioned us to be very careful since there were no stoplights or other lights to indicate crossroads.

There was a tremendous amount of activity at the Red Cross headquarters. I heard later that there were nearly 2,000 volunteers, including about 50 amateur radio operators.

By the time we arrived, the initial emergency measures had been completed. Medical treatment had been provided, and the homeless had been taken to shelters. The Red Cross personnel told us that the hardest work remained to be done.

Most of the hams were assigned to damage assessment patrols. I installed my portable radio equipment in a local volunteer's car. Cathy, the driver, had grown up in Newton

Falls. When she couldn't contact her family by phone, she drove from Akron to see that they were safe. Then she came with her sister to help in any way she could. Russell, a native of Trumbull County, served as the navigator on our team.

Each team was assigned a section on the map to survey for damage. As we drove, we took notes on what we saw. A power line across the road, a bridge impassable, a house or commercial building destroyed. As we finished each sector, I radioed the information to the headquarters, where it was recorded and used to plan the cleanup activities that would follow.

The degree to which we rely on technology was brought home to me in those few hours. Without electricity, the gasoline pumps were inoperable, causing transportation problems. Without telephones, individuals could not request assistance or report problems.

Without the usual services, day-to-day problems can rise to crisis proportions. Police and fire vehicles had no communications because of damage to central antennas. About noon, a volunteer had to drive across town to the hospital to summon an ambulance to the scene of an auto accident.

By Saturday evening, more amateur radio operators arrived, so we were able to go home, driving past mile-long lines of cars at the few gasoline stations with electricity restored.

On the long drive home, we talked about some of the ways that high tech could have been helpful in this crisis.

Computers could have been of benefit in collecting information and coordinating efforts. I had forgotten all about the Epson in the trunk, since I didn't have any disaster relief software. Maybe that is an idea worth pursuing in the future.

One result of last weekend's experience was that I gained a greater appreciation for those comforts that technology brings us. More importantly, it reaffirmed my faith in my fellow man. A heartfelt thanks to the Red Cross, the amateur radio operators, and all those who came out to help.



THE FOLLOWING IS A COMPLETE LIST OF ALL KNOWN RADIO AMATEURS WHO HAD HELPED DURING THE TORNADO DISASTER WHICH STRUCK NORTHEASTERN OHIO ON MAY 31, 1985. IF YOU KNOW OF ANYONE ELSE WHO DID HELP, PLEASE CONTACT RICK WELLS, KB8CI AT 779-8999 SO THEIR CALL AND NAME WILL BE UPDATED ON THE LIST FOR THE AMERICAN RED CROSS, THANK YOU.

BELOW ARE NAMES  
WITHOUT CALLS,  
PLEASE HELP IF  
YOU CAN TO HELP  
IDENTIFY THEM.

CHUCK	AMY	1 KB8A DAN	WB8DQV BUD	KB1RY SPRAGUE	KB8PMI KEN	WB8YYS GREG
ARTHUR	BAKER	KB8AB PAUL	N8EGC JEFF	WB1SU BOB	WB8PYV JACK	KZ8Z CURT
DAVE	BENTZ	WB8ABD EDWIN	K8EIH ERNIE	KB1SY JOHN	WB8QBP TREV	WB8ZGM JIM
DEENA	BLASOR	WL7ACP TED	N8EIH KEN	WB8IWI DAVE	WB8QT WAYNE	WB8ZHC JOHN
ERIC	BROZ	N8AD LEN	KABEJS ROY	KAB8JAZ ???	WB8QI GEORGE	10 KB8ZI DIRK
JACOB	BYERS	WB8ADW FRED	4 KB8EQ DICK	WB8JIV ???	KAB8QJR TONY	11 KB8ZK ED
TOM	CARROLL	KAB8AFL DON	N8EQT RAY	K8JJ DAVID	KAB8QKY CURT	WB8ZKX CHARLES
GLEN	CARUTHERS	2 WB8AJF DAN	5 N8ETQ DAN	K8JLK DICK	KAB8QLM SCOTT	WB8ZQX SAM
DOYLE	CHISNELL	WB8AJI JIM	6 N8ETY DAVE	KDBJM GARRY	WB8QYJ BOB	WB8ZSP GRANT
DEBRA	CHITESTER	WB8AJR DAVE	N8EYW LARRY	KAB8JQX JIM	KCB8RM SANDY	WB8ZYT MIKE
JEANETTE	CHITESTER	N3ALT BILL	WB8EYW ???	WB8JQQ DAVE	WB8RXW JOHN	
KEVIN	CLIFTON	WB8ANN SLIM	N8EXY PAUL	WB8JRC LEE	14 KB8ZP JOHN	
JIM	CORDRAY	N8ATF ???	WB8EYF EV	WB8KCE ED	KAB8SAC DAVID	
JOHN	DEFOE	K8ATJ MIKE	N8EZO ALAN	WB8KGD DOC	15 KB8SCI RICK	
LARRY	FIELDS	WB8AUB DOUG	WB8FBF A.J.	WB8KHJ AL ???	KAB8SDO BILL	
JIM	GABRIEL	N8AUH DAVE	7 N8FCQ CASEY	11 KB8KI JOHN	WB8SQJ STAN	
GARY	GREGG	WB8AYH FRANK	KCB8FD ABE	KDBKJ FRANK	KZ8T DAVE	
BILL	HESSLER	N8AZK KEN	WB8FEC ART	WB8KKI JOHN	KB8TIA JOHN	
GENE	HOLMER	K8BBE CHARLES	8 N8FKT BOB	N8KW ANTHONY	WB8TJL GARY	
BOB	HUBBLE	WB8BN NORMAN	KCB8FL BOB	KAB8KYX JASPER	KAB8TOA GREG	
DAN	JAKENKOWSKI	KAB8BOL DON	N8FQP RALPH	WB8KZM JIM	KAB8TSU JIM	
LEE	KERBER	WB8BGY LEROY	N8FQZ LENNY	KB8LJ CHUCK	WB8TYJ WALT	
RICK	KERR	WB8BJL RON	N8FRA BILL	WB8LHW HENRY	KAB8TZH JIM	
DOUG	KIRSOP	K8BL BOB	N8FRJ DOUG	WB8LYD BOB	AK8U WAYNE	
JEAN	KNIGHT	K8BLB JIM	N8FTP LARRY	WB8LZY BRUCE	WB8UBS FRED	
IRVING	KNIGHT	WB8BOA ROGER	N8FVU PATTI	KCB8M STEVE	16 WB8UDA FRED	
DAVE	KOCH	N8BSJ CHARLES	N8FYA DEAN	N18M JOHN	WB8ULH WALT	
AL	KONIG	N8BTF CHARLES	N18G TOM	N8MC BYRON	KDB8UN VIRDEN	
DAVID	MANN	WB8BVV DUANE	K8GAS HERSCHEL	WB8MCD LEN	WB8UNA RON	
FRANK	MCKENZIE	WB8BWW VINCE	WB8GGB HUBERT	WB8MEK PAUL	17 WB8UPA RUSS	
TIMOTHY	MCLEOD	K8BXT DON	WB8GCF DAVID	KAB8MNL FRANK	KAB8UVI MIKE	
WES	MILLER	K8BYC CHARLES	N8GEC HARRY	WB8MPP ???	KAB8UXJ ROGER	
PAM	MYERS	KAB8BYU ROY	N8GEU ???	WB8MPY LARRY	KAB8UXK RAY	
JOHN	MYERS	WB8BZX ROY	N8GGB JIM ???	WB8MTA BOB	KAB8XL ALEXA	
STEVE	NOWAK	K8CCZ JOHN	N8GGV ???	KD9MU JOHN	WB8UYN ALBERT	
TARI	RIANZO	WB8CDA GLENN	N8GHX ???	WB8MYF BUD	KF1V MARK	
KEN	RULE	N8CDN TERRY	KCB8GI BILL	WB8NVA BILL	KX8V BOB	
TERRY	RUSS	N8CDS DAVE	N8GIE JOHN	KJ3O JOANNE	WB8VCR TOM	
KAREN	SENN	WB8CHL JIM	9 N8GJR JIM	KAB8OAT RICH	WB8VDJ DAN	
REV C.J.	SILTS	3-KAB8CKZ BILL	KCB8GM CORNELIS	KAB8OEI MIKE	KAB8VTP PHIL	
R.E.	SMITH	WB8CRJ TED	WB8GMT JOHN	WB8OFP RON	KAB8VTR JIM	
DEKIA	THORNTON	N8CZU ROBERT	N8GNM STEVE	18 WB8OGN JACK	KCB8VX TOM	
FRANK	TOMPKINS	NOCZV STEVE	N8GNU DANE ???	WB8OIZ ED	KAB8VXG ???	
JIM	TULLIS	N8DAI JACK	N8GNV ???	KCB8OK JERRY	WB8VXW KEN	
LEWIS	WAGONER	N8DC ???	N8GNW ???	KDB8OM RICK	WB8WAV CHARLES	
JOE	WALKER	K8DOL ???	NK8H ???	WB8OOI JERRY	KAB8WBL ???	
HELEN	WANZIE	KAB8DGO NAN	WB8HDF DON	WB8OPI A.F.	KB8WJH ED	
SONNY	WILLIAMS	WB8DGU BUD	KASHHK RALPH	WB8OPT MELANIE	KB8WLF FRITZ	
BOB	YUNGEN	K8DHO BUD	KAB8HZB GEORGE	WB8OSS DAVID	KB8WLK NORMAN	
		WB8DIE LEWIS	KAB8HZC SUE	WB8OST ???	WB8WOL GEORGE	
		K8DJN RUTH	WB8IAA TOM	KAB8OYE GEORGE	KCB8XF BILL	
		WB8DJP ???	KAB8ICB TOM	19 WB8OYO DAVE	NB8Y BILL	
		KAB8DJZ GARY	WB8IJW BOB	WB8OZN DON	WB8YDP DREW	
		N8DOD JIM	10 WB8IKO STEVE	WB8PBZ PETE	WB8YJP BILL	
		K8DOH AUG	WB8IPY DICK	WB8PHN JOHN	WB8YRX JOHN	
		N8DOS DOUG	WB8IQA JEFF	WB8PKC CLARENCE	KBYUW JERRY	



## Amateur Radio Test Sites in Ohio

as of 07/01/85

Please send me corrections or additions to this list. Thanks 73 Bob KJRC Jackson Ohio.

Locations marked with ! are confirmed on recent ARRL/VEC printout. Send SASE to ARRL/VEC for their updates.

Date	Location	Contact Person	Callsign	Address	City	St Zip	Phone	Walkin
07/27/85	Akron	Leonard Szymanski	KCBFH	497 Knollwood	Tallmadge	OH 44278	216-633-5250	?
07/27/85	Toledo !	Joe Feustle, Jr.	NBAAT	2704 Sherbrooke	Toledo	OH 43606	419-472-4314	Yes
07/27/85	Marion	Chris Snyder	KBBVA	722 King Ave	Marion	OH 43302	614-387-2684	No
08/03/85	Mentor !	R Scott Farnham	KO80	7126 Andover Drive	Mentor	OH 44060	216-951-7985	Yes
08/04/85	Elyria !	Dave Willemin	A10M	331 Courtland	Elyria	OH 44035	216-324-4574	yes
08/10/85	Toledo	Elmer Zieroff	KUBB	2614 106th St	Toledo	OH 43611	419-729-5245	Yes
08/17/85	Mansfield !	Peggy E Boyle	KCBNH	1464 Marion Ave Rd	Mansfield	OH 44906	419-756-4679	?
08/17/85	Dayton !	Thomas W Holmes	N8ZH	911 Shortcreek Circle	Centerville	OH 45459	513-439-1620	Yes
08/18/85	Warren !	James Frank	K7BD	269 N Yorkshire Blvd	Youngstown	OH 44515	216-793-8866	?
08/24/85	Toledo	Joe Feustle, Jr.	NBAAT	2704 Sherbrooke	Toledo	OH 43606	419-472-4314	Yes
08/31/85	Canton !	Rich Stellarini	WB8VUN	1003 Shadyside Ave SW	Canton	OH 44710	216-453-5896	?
09/14/85	Columbus	Walt Sunden	AJBJ	1296 Millerdale Rd	Columbus	OH 43209	614-235-2745	Yes
09/14/85	Toledo	Elmer Zieroff	KUBB	2614 106th St	Toledo	OH 43611	419-729-5245	Yes
09/22/85	Berea !	Dave Willemin	A10M	331 Courtland St	Elyria	OH 44035	216-324-4574	Yes
09/28/85	Ravenna !	Joanne Solak	KJ30/8	9971 Diagonal Rd	Mantua	OH 44255	216-274-8240	Yes
09/28/85	Toledo	Joe Feustle, Jr.	NBAAT	2704 Sherbrooke	Toledo	OH 43606	419-472-4314	Yes
10/05/85	St Clairsville	Ralph McDonough	K8AN	Box 240 RD 2	Adena	OH 43901	614-546-3938	No
10/05/85	Mentor !	R Scott Farnham	KO80	7126 Andover Drive	Mentor	OH 44060	216-951-7985	Yes
10/12/85	Toledo	Elmer Zieroff	KUBB	2614 106th St	Toledo	OH 43611	419-729-5245	Yes
10/12/85	Dayton !	Thomas W Holmes	N8ZH	911 Shortcreek Circle	Centerville	OH 45459	513-439-1620	Yes
10/26/85	Akron	Leonard Szymanski	KCBFH	497 Knollwood	Tallmadge	OH 44278	216-633-5250	?
10/26/85	Toledo	Joe Feustle, Jr.	NBAAT	2704 Sherbrooke	Toledo	OH 43606	419-472-4314	Yes
10/27/85	Elyria	Dave Willemin	A10M	331 Courtland	Elyria	OH 44035	216-324-4574	Yes
10/27/85	Marion	Chris Snyder	KBBVA	722 King Ave	Marion	OH 43302	614-387-2684	No
11/09/85	Columbus	Walt Sunden	AJBJ	1296 Millerdale Rd	Columbus	OH 43209	614-235-2745	Yes
11/09/85	Toledo	Elmer Zieroff	KUBB	2614 106th St	Toledo	OH 43611	419-729-5245	Yes
11/16/85	Mansfield !	Peggy E Boyle	KCBNH	1464 Marion Ave Rd	Mansfield	OH 44906	419-756-4679	?
11/16/85	Toledo	Joe Feustle, Jr.	NBAAT	2704 Sherbrooke	Toledo	OH 43606	419-472-4314	Yes
11/30/85	Canton !	Rich Stellarini	WB8VUN	1003 Shadyside Ave SW	Canton	OH 44710	216-453-5896	?
12/07/85	Mentor	R Scott Farnham	KO80	7126 Andover Drive	Mentor	OH 44060	216-951-7985	Yes
12/08/85	Elyria	Dave Willemin	A10M	331 Courtland	Elyria	OH 44035	216-324-4574	Yes
12/14/85	Toledo	Elmer Zieroff	KUBB	2614 106th St	Toledo	OH 43611	419-729-5245	Yes
12/14/85	Dayton !	Thomas W Holmes	N8ZH	911 Shortcreek Circle	Centerville	OH 45459	513-439-1620	Yes
12/14/85	Toledo	Joe Feustle, Jr.	NBAAT	2704 Sherbrooke	Toledo	OH 43606	419-472-4314	Yes
12/28/85	Ravenna !	Joanne Solak	KJ30/8	9971 Diagonal Rd	Mantua	OH 44255	216-274-8240	Yes

AMATEUR RADIO CODE AND THEORY CLASSES THE NEXT NOVICE THRU EXTRA CLASS CODE AND THEORY CLASSES THAT WILL BE SCHEDULED AT VALLEY FORGE HIGH SCHOOL, PARMA HEIGHTS, OHIO WILL START TUESDAY EVENING SEPTEMBER 24TH AT 7:00 PM. THESE CLASSES WILL RUN FOR 12 WEEKS. FOR MORE INFORMATION, CONTACT: FRED ENGELMAN, WB8UBS AT 524-1995.

WESTLINK SUPPORT FUND THE WESTLINK ORGANIZATION WHICH PRODUCES THE WESTLINK NEWSCAST HEARD EACH SUNDAY NIGHT DURING THE NORTH COAST A.R.C. INFORMAL NET AT 9 P.M. (145.290 MHZ) IS FINANCIALLY SUPPORTED BY VOLUNTEER DONATIONS.

THEY HAVE EXPRESSED AN URGENT NEED FOR ADDITIONAL SUPPORT. IF YOU ARE INTERESTED IN SENDING A FINANCIAL DONATION TO WESTLINK TO HELP KEEP THESE NEWSCAST COMING, PLEASE ADDRESS YOUR DONATION (MADE OUT TO WESTLINK INC) TO:

WESTLINK SUPPORT FUND, C/O NORM CHELTON K6PGX, P O BOX 463, PASADENA, CALIF. 91102

PLEASE MENTION THAT YOU LISTEN TO THE NEWSCAST ON OUR NORTH COAST A.R.C. REPEATER IN THE CLEVELAND, OHIO AREA.





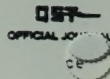
# THE AMERICAN RADIO RELAY LEAGUE, INC.

## SECTION MANAGER

ARRL Ohio Section Conference and Picnic

Sunday August 4, 1985

10 AM to 7 PM



### What is it?

This is an opportunity to meet with other active amateurs from around Ohio to discuss: 1) the programs of the ARRL Field Organization in Ohio; 2) the state of Amateur Radio; 3) ways that we can promote our hobby; 4) public service communications; 5) ways that we can better plan for emergency communications; 6) How the ARRL can better serve it's members in Ohio; 7) whatever other topics are of interest to the group.

This is a chance to provide your inputs and suggestions directly to elected and appointed ARRL officials of the Ohio Section and of the Great Lakes Division, and to get reports from them on the status of current projects. It's also a chance for you and your family to socialize with other amateurs and their families, with entertainment and education for all.

### Who Should Come?

The active amateur who is concerned with the ARRL Field Organization in Ohio, including traffic handling, emergency and public service communications, Amateur Radio public relations, radio clubs, and the state of our hobby in general.

### Where:

At the nationally-recognized Columbus Zoo, located just south of the intersection of State Routes 257 and 750, six miles northwest of Columbus. (See the enclosed map). The shelter that we will use is overlooking the zebra enclosure, within the Zoo.

### Talk-In:

Talk-in will be available after 9 AM on 147.24 MHz (+600 KHz).

### Advanced Tickets:

Admission tickets to the Zoo must be purchased in order to participate. Tickets purchased for the conference/picnic also permit full access to all of the Zoo's facilities until the Zoo closes at 7 PM. Tickets at a reduced price are available before August 1 from Jeff Maass K8ND, 9256 Concord Rd., Powell OH 43065. Home Phone: (614) 873-3234.

Adult (Ages 12+): \$2.50, Child (Ages 2-11): \$1.00, Under 2: Free

### At the Gate:

Tickets will be available at the gate on the day of the conference/picnic at the Zoo's normal rates.

Adult (Ages 12+): \$3.75, Child (Ages 2-11): \$1.50, Under 2: Free



### Parking:

Parking is available in the Zoo parking lot for a cost of \$1.00 per vehicle.

### Facilities:

We have rented a shelter house with picnic tables, grills (including charcoal and lighter), running water, and electricity. A 2 meter and 75 meter station will be installed at the shelter house, as will a demonstration of packet radio. The shelter house will accomodate up to 300 people.

A keg of beer and cups will be available; donations will be accepted.

There are food and beverage sales on the Zoo grounds, including a Wendy's fast food restauraunt if you choose not to pack a lunch.

The Zoo is designed to entertain and educate young and old alike. Emphasis is on the breeding programs of the Zoo, and the preservation of endangered species.

Adjacent to the Zoo is a water theme park, Wyandot Lake, which requires a separate admission fee of \$8.00, and includes water slides, amusement-style rides, several swimming pools, and a large wave pool. A swim suit is required for admission if your family chooses to spend time there.

### What to bring:

This conference/picnic is intended to further the purposes of the Ohio Section of the ARRL by allowing for a free flow of ideas and concerns, but it is also intended to be a family type of event that will say "thanks" to the many dedicated amateurs of Ohio and to their families. By all means, bring your family!

If you do not wish to purchase your lunch at the food establishments at the Zoo, pack a picnic lunch, including beverages.

Discuss this conference/picnic with other Amateurs in your club and bring a list of their concerns, suggestions, or ideas (or better yet, bring them!) The success of this event depends upon the inputs provided.

This conference/picnic is sponsored by the Ohio Section of the American Radio Relay League (ARRL). For further information, contact:

Jeff Maass, K8ND  
ARRL Ohio Section Manager  
9256 Concord Road  
Powell OH 43065  
Home phone: (614) 873-3234



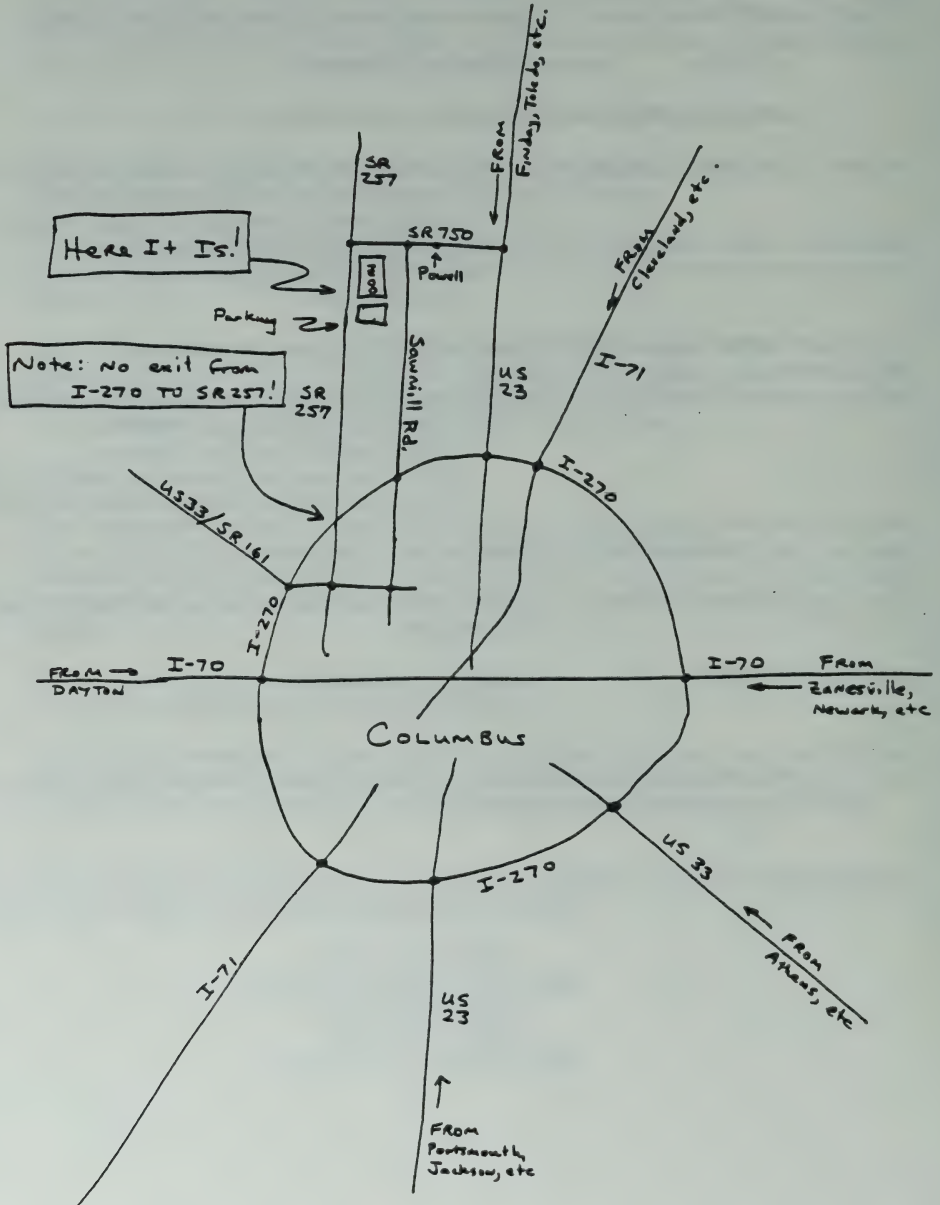
**Schedule/Agenda**  
**ARRL Ohio Section Conference and Picnic**  
**Sunday August 4, 1985**  
**10:00 AM to 7:00 PM**

<u>Time</u>	<u>Activity</u>
9:00 AM	Talk-in station begins operation (147.24 MHz)
10:00 AM	Columbus Zoo opens
10:00 AM-10:30 AM	Gather at shelter house
10:30 AM-12:00 Noon	Discussion Session #1: ARRL Programs and Priorities <ul style="list-style-type: none"><li>* Promoting Growth in Amateur Radio</li><li>* The Enhanced Novice License Proposal</li><li>* The ARRL Callsign Proposal</li><li>* An Ohio Section Newsletter</li><li>* Open Forum</li></ul>
12:00 Noon-1:15 PM	Lunch and unstructured discussions.
1:15 PM-3:15 PM	Discussion Session #2: Emergency Planning in Ohio <ul style="list-style-type: none"><li>* The Ohio ARES Districting Plan</li><li>* Ohio Traffic Handling Programs</li><li>* The Ohio Section Emergency Plan</li><li>* Lessons from the Northeastern Ohio Tornadoes</li></ul>
3:15 PM-3:30 PM	Summary and Conclusions
3:30 PM-7:00 PM	Unstructured discussion, social and family time at the Zoo, cleanup.
7:00 PM	Columbus Zoo closes.

We will have HF and VHF-FM stations operating at the shelter house facility, including a demonstration of packet radio.



The Columbus Zoo is located approximately 6 miles Northwest of Columbus, just south of the intersection of Ohio State Routes 257 and 750. Talk-in will be available after 9 AM on the 147.24+ repeater of the Capital City Repeater Association, and on 146.46 simplex.





# Gateway

Vol. 1, No. 21  
Jun. 11, 1985



## The ARRL Packet-Radio Newsletter

### GATEWAY DELAY

This issue of Gateway is the one that you expected on June 4. It was postponed until June 11 because the editor was on vacation. Gateway will now resume its schedule of an issue every two weeks; issue 22 will be printed on June 25, issue 23 on July 9, and so on. This one-week shift of the schedule also helps us with another problem: summer is a slow period for Amateur Radio, and there isn't as much news as we would like. Please send items for Gateway, either through the mail to ARRL Headquarters, via Compuserve (our user number is 75105,737), or via DRNET (you may have a DRNET member in your area). We are especially interested in reports of Field Day packet activity.

Jeff Ward, Editor.

### INTERNATIONAL PACKET NEWSLETTER

We have received a "beta test" issue of PacketWorld -- International Journal of Packet Radio. The newsletter, published by a new club called Packet Telecommunications International, will address "packet radio for hams, computer enthusiasts and businesses." PacketWorld will come out every two months, and a one-year, six-issue subscription is \$10. The first issue, due out in July, will include articles on protocols, regional networks, hardware and software, mobile data terminals and bulletin boards. Packet Telecommunications International meets regularly in Santa Rosa, California. To subscribe or contribute to PacketWorld, contact:

PTI West  
520 Mendocino Ave, Ste 340  
Santa Rosa, CA 95401.

From PacketWorld and KA6ATN.

### PSR GOES QUARTERLY

The Packet Status Register (PSR), newsletter of the Tucson Amateur Packet Radio Corp. (TAPR) will become the PSR Quarterly in July. The folks at TAPR believe that the PSR's role as a carrier of timely operational and organizational news is being filled by other publications and that what the packet-radio community needs is a technical journal carrying items of lasting significance. The new PSR Quarterly, scheduled to be published every July, October, January and April, will fill this need.

Gwyn Reedy, W1BEL, will be the editor of the new publication. Judging by the quality of Gwyn's editing of the FADCA>BEACON, PSR Quarterly will be an attractive, informative publication. Remember, however, that a successful technical publication needs more than a skilled editor; it needs good technical articles. If you want to submit an article for the July issue of the PSR Quarterly, it should reach Gwyn by June 25. Send articles to:

Gwyn Reedy, W1BEL  
Editor, PSR Quarterly  
812 Childers Loop  
Brandon, FL 33511.

Via PSR and DRNET.

### NEWSLETTERS

We receive several packet-radio newsletters, some intended for local distribution and some national in scope. Without reprinting entire newsletters, we would like to present some of the highlights of those received recently.

FADCA>BEACON is the journal of the Florida Amateur Digital Communications Association (FADCA), but this large newsletter carries articles that are interesting for all packeteers. For example, the May issue of FADCA>BEACON contains several columns, including one for beginners, and features on the TAPR TNC 2, the Kantronics TNC, 9600-bit/s linking, a double-density disk controller for the Xerox 820 and the proposed TAPR network controller. There is also an index to all previous FADCA>BEACON articles. The layout and artwork in this newsletter, done by Brad and Cheryl Voss, make the FADCA>BEACON a pleasure to read. Back issues of FADCA>BEACON are available for a reasonable price. For more information on FADCA and its newsletter, write FADCA, c/o Gwyn Reedy, W1BEL, at the address in the "PSR GOES QUARTERLY" item in this issue of Gateway.

UPRA CONNECT is published by the Utah Packet Radio Association (UPRA). The May issue of the UPRA CONNECT is 11 pages long, and it provides local news and reprints from other newsletters. Dave Pedersen, N7BHC, reports that the Salt Lake City group hopes to establish links to Boise, Idaho, Anaconda, Montana, and Grand Junction, Colorado before this winter. UPRA has prepared an information package that it will send to groups interested in helping establish these intermountain links. In another UPRA CONNECT article, Steve Peterson, K17L, discusses the important topic of Amateur Radio emergency



communications. He suggests that packet-radio clubs carry out their own emergency drills before trying to impress public-safety agencies with packet radio.

For those who live in the northeast, the New England Packet Radio Association (NEPRA) prints the Packetear. This is another newsletter with items of both local and general significance. As packet radio becomes more and more popular and commercial equipment becomes widespread, clubs that are not dedicated to digital communications are getting interested in packet. This is reflected in numerous newsletters that we receive from Amateur Radio clubs throughout the country. The newsletter of the Mid-Atlantic Amateur Radio Club reports that the club will support a digipeater and a packet bulletin-board system (PBBS) in the near future. The Ramapo Mountain Amateur Radio Club (New Jersey) already supports WA2SNA, a major digipeater in EASTNET. The most recent issue of their journal contains an overview of packet in the U.S., a map of the major links in EASTNET and a report on high-speed linking efforts. On the west coast, the Boeing Employees' Amateur Radio Society (BEARS) digital communications committee is assembling a digital position at the club's station. The position will include packet radio, of course. The Palo Alto Amateur Radio Association newsletter, PAARA Graphs, is filled with packet-radio information, including a WESTNET map and some messages captured from the local PBBS.

These items are presented to show that packet radio is spreading, and that both special-interest and general-interest Amateur Radio Clubs are talking about digital communications. If your local club isn't on packet yet, consider writing an article for their newsletter. Editors are always looking for items to print. If your packet-radio club publishes a newsletter, please be sure to put Gateway on the mailing list.

From Various Newsletters.

#### CONSTRUCTION CLASS

Bob McCormick, KALKPH, has come up with an interesting way to get members of the Hampden County Radio Association onto packet radio. Bob is going to hold a "Let's Build a TNC" class during which club members will build Heath HD-4040 TNCs and learn to use them. He hopes that this will familiarize the attendees with good construction techniques and give them some guidance during the "now that it's built, what do I do with it?" phase. This sounds like something that a club might plan in the summer and execute in the fall, giving everyone something to look forward to. (Bob should also be congratulated for his two-part introduction to packet that was printed in recent issues of World Radio.)

Via HCRA Zero Beat.

#### CABINETS FOR TAPR FROM HEATH

If you didn't get a custom cabinet for your TAPR TNC 1, and you've still got your TNC mounted on plywood or sitting on the bench, Heath has come the rescue. A call to Heath's parts department confirmed that they have put together a package of

parts that contains everything that you need to put your TAPR TNC 1 into the brown, low-profile cabinet that Heath's HD-4040 comes in. The parts included are the chassis, cabinet top, low-profile transformer, line cord, power switch, LEDs and hardware. Total price for the parts is just under \$40, and Heath has everything in stock but the cabinet tops. Since TAPR has no more cabinet this is probably the best deal going for TNC 1 owners who want cabinets. To order, call Heath at 616-982-3571.

From N1CB and Heath.

#### PACKET AND THE IEEE

May was a good month for packet radio in the professional electronics press. The Institute of Electrical and Electronics Engineers (IEEE) is a professional organization that prints many publications, both general and specialized. In the May issue of IEEE Spectrum, the magazine received by all IEEE members, there is an article titled "The High-tech Hobbyhorse," discussing how "personal computers and computer-based systems are turning two of the oldest hobbies in the United States -- amateur radio and model railroading -- into high-tech pastimes." Two packeteers, Harold Price, NK6K, and Terry Fox, WB4JFI, were interviewed for the article, and packet is discussed extensively under the heading "A network node in your home?" There is also a photograph of Harold's station; a TAPR TNC and several computers show clearly. The technical IEEE Journal on Selected Areas in Communications, in a special issue devoted to communications for personal computers, carried article called "Packet Rad in the Amateur Service." This article was written by Phil Karn, KA9Q, Harold Price, NK6K, and Bob Diersing, N5AHD. Congratulations to all involved for pointing out to the professional community that Amateur Radio is still state of the art.

Ed.

#### ITU FASCICLES AVAILABLE

What is a "fascicle" and why is it in Gateway? Well, Webster's gives us the interesting definition "1 a: an inflorescence consisting of a compacted cyme less capitate than a glomerule" and the more relevant "2: one of the divisions of a book published in parts." In this case, we are talking about some fascicles published by the International Telephone and Telegraph Consultative Committee (CCITT) detailing their R, S, and U series Recommendations. Volume VII - Fascicle VII.1, covers telegraph transmission (R series) and telegraph services and terminal equipment (S series). Volume VII - Fascicle VII.2 is the U series Recommendations for Telegraph Switching, including telex internetworking. The two fascicles, or "fascicules" are available for 34 and 31 Swiss francs, respectively. Write to:

International Telecommunication Union  
General Secretariat, Sales Service  
Place des Nations  
CH-1211 Geneva 20  
SWITZERLAND.

Via W4RI.



### CONNECTICUT PACKET CLUB

Connecticut now has its own packet radio club, the Southern New England Association of Packeteers (SNAP). The club will assist the development and organization of packet radio in Connecticut and strive to integrate the Connecticut segment of EASTNET into NTS. There have already been two meetings of SNAP, although the election of officers and the ratification of constitution and bylaws have been delayed until the July 2 meeting. The club will meet on the first Tuesday of every month, at 7:30 P.M. in the ARRL Headquarters in Newington, Connecticut. SNAP will hold a 2-meter FM net, Wednesday at 9:30 P.M. on 147.75/.15 MHz.

From KE3Z.

### CONNECT INDICATOR

If you are wondering what to do with the signals available from the parallel port of your TAPR or Heath TNC, the Maxtec "KON-D-KON INDICATOR" may be for you. KON-D-KON is a small (1.5- X 1.5-inch) circuit board that connects to your TNC and a speaker and sounds a short tone when someone connects to you. When KON-D-KON is connected, the "spare" LED on the TNC indicates connect status. KON-D-KON is available as a bare PC board, a complete kit or assembled and tested, from:

Maxtec Writing  
3721 Spring Valley No. 111  
Addison, TX 75234.

Max Adams, W5PFG, maker of KON-D-KON, reports that the gadget helped him work W4WEB near Panama City, Florida. Max was not at his terminal when W4WEB connected, but the KON-D-KON alerted him and he was able to complete the 600-mile contact.

From W5PFG.

### NTS, PACKET AND ASSISTANT TECHNICAL COORDINATORS

In the Eastern Massachusetts section, packet radio was united with the National Traffic System (NTS) to help find volunteers for the new ARRL Assistant Technical Coordinator (ATC) appointments. Luck Hurder, KY1T, and Mort Cohan, K1IU, used a list of ARRL members in the EMASS section to address several hundred radiograms. The radiograms were stored on the K1BC PBBS, which is dedicated to traffic handling, and NTS members with packet stations either delivered the messages or relayed them to the NTS Section net. The radiograms were delivered quickly and resulted in responses from more than 30 qualified candidates. The support of NTS by packet networks is important, and we are interested in hearing from people who are developing connections between the two communications systems.

Via KY1T.

### BINARY FILE TRANSFERS

Many packeteers want to transfer binary files using packet radio, and this is one of the "services" that will be demanded of future packet networks. Several recent messages on Compuserve HAMNET discussed attempts to use telephone data-

transfer protocols like XMODEM and KERMIT to transfer data over packet-radio links. The delays introduced by the packet channel make these timing-sensitive protocols nearly useless. The packet-radio community needs to agree on a simple but expandable protocol for binary transfers. The protocol need not detect or correct errors, since the AX.25 link will take care of these things. The protocol must provide a means for the sending station to find out when the receiving station is ready, and it must provide some data-transparent mechanism for detecting the end of the transfer (some kind of byte counting mechanism, perhaps). If you are working on such a protocol, it is time that you made it public. Consider writing an article for one of the packet radio newsletters.

Via HAMNET.

### 220-MHZ EXPERIMENT

Norm Sternberg, W2JUP, is running a packet beacon on 221.02 MHz from midnight to 8 A.M., EDT. The beacon runs 25 watts to an omnidirectional antenna in Farmingville, Long Island (grid square FN30). This experiment should provide an indication of the propagation that will be faced by the EASTNET stations planning to install 220-MHz, 9600-bit/s links. Norm would like anybody who hears the beacon to report to him at 516-698-8818, or on his BBS at 516-726-2208.

Via HAMNET.

### MACINTOSH PACKET PREPROCESSOR

If you have a Macintosh computer and a TAPR-compatible TNC, you will be excited by the announcement of the MacPacket/TAPRterm. This "front-end processor" turns your Macintosh and TNC into a complete computer communications system. It features a split-screen display, pull-down menus containing all TNC commands and parameters, file uploading and downloading, and a routing file (so that you don't have to remember the calls of every digipeater to connect to someone). The program makes extensive use of the famous Macintosh user interface to help you make your packet station more "friendly." The split-screen display ends the problems of deciding who typed which characters. TNC parameters may be modified by "pulling down" one of the TAPRterm menus. To connect to another station, you simply select "Connect" from the command window, type the call sign of the station that you want to connect to and activate the automatic routing system. Uploading and downloading of text files and printing of received data are currently supported. Binary data transfer will be available shortly. The software is available from:

Brincomm Technology  
19451 Gulf Blvd. #503  
Indian Rocks Beach, FL 33535.

The \$39.95 price includes all updates for one year.

Via HAMNET, WA4FIB.

#### EASTNET HF NET

Participation in the EASTNET 75-meter SSB net has dropped to only two or three stations. To try to generate more interest, the unofficial net control station has decided to move the net to Thursday night, 9:00 P.M. EDT. The frequency remains 3.855 MHz. If you are interested in the growth and design of EASTNET, please check into the net. If you are new to packet radio and want some questions answered, turn on your HF rig and ask the assembled "experts."

Via WBZKMY.

#### TAPR CLOSES HF NET

Poor propagation and lack of net-control stations have caused TAPR to discontinue its 15- and 20-meter HF nets.

Via PSR.

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#### NORTH COAST GENERAL MEETINGS

THE NEXT TWO MEETINGS (AFTER THE AUGUST 1 MEETING) WILL BE OCTOBER 3 AND DECEMBER 5, 1985. BOTH ARE THE FIRST THURSDAY OF THE MONTH AND WILL BE AT THE SAME TIME (7:30 P.M.) AT THE N. OLMSTED BRANCH OF THE COUNTY LIBRARY.

#### CLEVELAND HAMFEST UPDATE

UPDATED INFORMATION ON OUR LOCAL CLEVELAND HAMFEST/BANQUET IS INCLUDED WITHIN THE ENCLOSED FLYER. AMONG THE ADDITIONS ARE:

\*\* INSIDE SPACE FOR FLEA MARKET IN THE EVENT OF RAIN

\*\* FREE AFTERNOON AUCTION

\*\* COMPUTER RELATED MAJOR PRIZE (OKIDATA PRINTER) FOR 2ND

\*\* MORE CLEVELAND AREA CLUBS ARE INVOLVED

\*\* GUEST SPEAKER AT THE BANQUET WILL BE DICK FEAGLER OF WKYC TV-3

\*\* 100 PERCENT WALK-IN AMATEUR EXAMS

NEXT CLEVELAND HAMFEST ASSOCIATION MEETING WILL BE HELD AT DENNY'S REST. (W. 150/I-71) TUES., AUGUST 13 AT 7:30.

#### NORTH COAST TO BENEFIT FROM DIRECT ADVANCE CLEVELAND HAMFEST TICKET SALES

NORTH COAST, AS WELL AS OTHER CLEVELAND AREA CLUBS WHO HAVE ACCEPTED PARTICIPATION, WILL BE ABLE TO RETAIN 50 CENTS ON EACH AND EVERY ADVANCE TICKET THAT IS SOLD DIRECT THRU OUR CLUB. ADVANCE TICKETS FOR THE CLEVELAND HAMFEST WILL BE AVAILABLE AT THE NORTH COAST AUGUST 1 MEETING. THE AUGUST 1 MEETING IS THE LAST NORTH COAST MEETING BEFORE THE CLEVELAND HAMFEST. HELP YOUR NORTH COAST CLUB FINANCIALLY BY GETTING YOUR CLEVELAND HAMFEST ADVANCE TICKET AT THE AUGUST 1 MEETING.

#### ITEMS FOR SALE

\*\* TH-3 TRI-BANDER - MAKE OFFER, CONTACT: JOHN PASTOR (K8RZP)

TELEPHONE: 234-4299

\*\* R-2000 KENWOOD GENERAL COVERAGE RECEIVER (.5-29 MHZ) WITH THE OPTIONAL VHF CONVERTER (118-170 MHZ) - \$425  
SEARS ROADTALKER CB CONVERTED TO 10 M SSB/AM WITH AC PWR SUPPLY - \$100, CONTACT DICK SCHEUERING (K8QNK)  
PHONE 741-7121.



JULY 22, 1985

NORTH COAST AMATEUR RADIO CLUB - MINI ROSTER

CALL	NAME	CALL	NAME	CALL	NAME
K8B-A	DAN	N8-FEG	PETE	K8-PPZ	TOM
WD8-AJF	DAN	N8-FGR	WAYNE	WD8-QAC	AL
N8-API	GEORGE	N8-FKS	DON	K8-QNK	DICK
K8-ATQ	ROL	N8-FKT	BOB	KD8-QY	GEORGE
N8-ATV	JERRY	KA8-FOE	PAULINE	K8-RBV	BOB
K8-AZ	TOM	N8-FQQ	TOM	WB8-RGK	TIM
W1-BBW	SHELLY	N8-GJR	JIM	K8-RSH	CHUCK
K8-BJA	FRANK	W8-GNB	EDDIE	WD8-RZG	DON
W1-BKZ	PETE	N8-GNL	JOHN	K8-RZP	JOHN
N8-BO	CHARLIE	W3-IGI	BILL	K8-SCI	RICK
K8-BPU	RAY	WB8-IKO	STEVE	WD8-SDP	LIN
N8-BTB	STEVE	KA8-IMU	TONY	W8-SNI	CHARLIE
K8-BVI	ART	WD8-INK	KEN	KA8-SNM	CHERI
N8-BYW	BUD	WD8-INO	STEVE	K9-SSL	MIKE
W8-CEJ	MEL	W8-IO	BOB	K8-TKQ	HOWARD
W8-CHA	STEVE	WD8-IQO	MILT	KA8-TNE	PAUL
K8B-CI	TOM	WD8-IRG	VAN	KA8-TQR	DENNIS
N8-CKV	PAUL	WD8-ISB	DICK	K8B-TT	DAVE
K8B-CKZ	BILL	N6-JAM	RON	K8-TTZ	BOB
K8B-CQY	MICHELLE	WD8-JMM	AL	KA8-TWK	KEN
K8-DDY	BILL	KD8-JQ	DON	WB8-UDA	FRED
N8-DMK	RUSS	W8-KGA	LARRY	WB8-UPA	RUSS
K8-DTS	BOB	WD8-KHU	MARK	K8-UHX	J D
WB8-DTY	TOMMIE	KC8-KI	JOHN	K8-UTE	BASIL
N8-DZO	JACK	WD8-KTC	MARIE	KA8-VIC	TIM
W8-EFW	PAUL	KA8-LIH	KAREN	K8-VJG	RON
N8-EIJ	KEN	WD8-LRZ	LARRY	KA8-WCK	ROY
KD8-EQ	DICK	K8-MDC	FRED	W8-WXR	ROGER
W8B-ERA	LEE	WD8-MHR	ERIC	W8-WYK	MAS
W8-ETC	LEN	K8-MO	JEFF	AE8-X	JIM
N8-ETP	TOM	W8-MW	MAYNARD	AK8-Y	MIKE
N8-ETQ	DAN	W8-MYX	HAL	KA8-Y	SHIRLEY
N8-ETW	ERNIE	WB8-NAQ	BILL	KW9-Y	DON
N8-ETY	DAVE	W8-NXT	FRED	WB8-YNX	CLYDE
N8-ETZ	MARY	WB8-NXT	NEIL	N8B-Z	LARRY
K8B-EVS	CHARLIE	WB8-OGN	JACK	K8B-ZA	JIM
KD8-EX	TOM	WD8-OMW	GLENN	KD8-ZI	DIRK
W8-FAZ	JOE	K8-OPV	GEORGE	KD8-ZK	ED
N8-FCX	RON	WD8-PBQ	JAY	WB8-ZQH	DAN
N8-FDY	TOM	W8-PEV	JIM		

# W1AW SCHEDULE

APRIL 28 — OCTOBER 27, 1985

Normal visiting hours are Mon.-Fri. from 8 A.M. to 1 A.M. EDT and on Sat. and Sun. from 3:30 P.M. to 1 A.M. EDT. The station address is 225 Main St., Newington, CT 06111 (about 7 miles south of Hartford). Note: ARRL office/visiting hours are 8-5, Mon.-Fri. Maps with local street detail are available upon request. If you desire to operate W1AW, you must have a copy of your operator's license with you. W1AW is available for operation by visitors Mon.-Fri., between 1 and 4 P.M., local time. The station will be closed May 27, July 4, and September 2. Staff: Chief operator, C. R. Bender, W1WPR; Station Engineer, Bernie Glassmeyer, W9KDR; Jeff Bauer, W1MBK.

IN A COMMUNICATIONS EMERGENCY monitor W1AW for bulletins as follows:  
Phone, on the hour. RTTY, 15 minutes past the hour. CW, on the half hour.

Code practice and bulletin transmissions are sent on the following schedule: MTWThFSn = Days of Week Dy = Daily

UTC	Slow Code Practice	MWF: 0200, 1300, 2300; TThSSn: 2000; Sn: 0200
	Fast Code Practice	MWF: 2000; TTh: 0200, 1300; TThSSn: 2300; S: 0200
	CW Bulletins	Dy: 0000, 0300, 2100; MTWThF: 1400
	Teleprinter Bulletins	Dy: 0100, 0400, 2200; MTWThF: 1500
	Voice Bulletins	Dy: 0130, 0430
EDT	Slow Code Practice	MWF: 9 A.M., 7 P.M.; TThSSn: 4 P.M., 10 P.M.
	Fast Code Practice	MWF: 4 P.M., 10 P.M.; TTh: 9 A.M.; TThSSn: 7 P.M.
	CW Bulletins	Dy: 5 P.M., 8 P.M., 11 P.M.; MTWThF: 10 A.M.
	Teleprinter Bulletins	Dy: 6 P.M., 9 P.M., 12 M.; MTWThF: 11 A.M.
	Voice Bulletins	Dy: 9:30 P.M., 12:30 A.M.
CDT	Slow Code Practice	MWF: 8 A.M., 6 P.M.; TThSSn: 3 P.M., 9 P.M.
	Fast Code Practice	MWF: 3 P.M., 9 P.M.; TTh: 8 A.M.; TThSSn: 5 P.M.
	CW Bulletins	Dy: 4 P.M., 7 P.M., 10 P.M.; MTWThF: 9 A.M.
	Teleprinter Bulletins	Dy: 5 P.M., 8 P.M., 11 P.M.; MTWThF: 10 A.M.
	Voice Bulletins	Dy: 8:30 P.M., 11:30 P.M.
MDT	Slow Code Practice	MWF: 7 A.M., 5 P.M.; TThSSn: 2 P.M., 8 P.M.
	Fast Code Practice	MWF: 2 P.M., 8 P.M.; TTh: 7 A.M.; TThSSn: 5 P.M.
	CW Bulletins	Dy: 3 P.M., 6 P.M., 9 P.M.; MTWThF: 8 A.M.
	Teleprinter Bulletins	Dy: 4 P.M., 7 P.M., 10 P.M.; MTWThF: 9 A.M.
	Voice Bulletins	Dy: 7:30 P.M., 10:30 P.M.
PDT	Slow Code Practice	MWF: 6 A.M., 4 P.M.; TThSSn: 1 P.M., 7 P.M.
	Fast Code Practice	MWF: 1 P.M., 7 P.M.; TTh: 6 A.M.; TThSSn: 4 P.M.
	CW Bulletins	Dy: 2 P.M., 5 P.M., 8 P.M.; MTWThF: 7 A.M.
	Teleprinter Bulletins	Dy: 3 P.M., 6 P.M., 9 P.M.; MTWThF: 8 A.M.
	Voice Bulletins	Dy: 6:30 P.M., 9:30 P.M.

Code practice, Qualifying Run and CW bulletin frequencies: 1.818, 3.58, 7.08, 14.07, 21.08, 28.08, 50.08, 147.555 MHz.

Teleprinter bulletin frequencies: 3.625, 7.095, 14.095, 21.095, 28.095, 147.555 MHz.

Voice Bulletin frequencies: 1.89, 3.99, 7.29, 14.29, 21.39, 28.59, 50.19, 147.555 MHz.

On MWF, 1300 through 2100 UTC, transmissions are beamed to Europe on 14, 21 and 28 MHz; on W at 2200 and 2220 UTC they are beamed south.

Slow Code practice is at 5, 7½, 10, 13 and 15 WPM.

Fast code practice is at 35, 30, 25, 20, 15, 13 and 10 WPM.

Code practice texts are from QST and the source of each practice is given at the beginning of each practice and at the beginning of alternate speeds.

For example, "Text is from February 1985 QST, pages 9 and 58" indicates that the main text is from the article on page 9 and the mixed number/letter groups at the end of each speed are from page 58.

On Fridays, UTC, a DX bulletin replaces the regular bulletin transmissions.

On Wednesday at 2230 UTC, an IARU Region 2 bulletin in English and Spanish on 45.45-baud Baudot is sent on the regular Teleprinter frequencies, beamed to Central and South America.

W1AW CW and voice bulletins are sent on OSCAR 10, Mode B, when the satellite is within range. Look for CW on 145.840 MHz and SSB on 145.962 MHz.

Teleprinter bulletins are 45.45-baud Baudot, 110-baud ASCII and 100-baud AMTOR, FEC Mode, Baudot, ASCII and AMTOR (in that order) are sent during all 1500 UTC transmissions, and 2200 UTC on TThFSn. During other transmission times, AMTOR is sent only as time permits.

CW bulletins are sent at 18 WPM.

## W1AW Qualifying Runs 10-35 wpm

Qualifying runs are sent on the listed code practice, Qualifying Run and cw bulletin frequencies, and replace the code practice normally sent during the time period.

Universal Coordinated Time (UTC)	Local Time	Eastern Daylight Time	Central Daylight Time	Mountain Daylight Time	Pacific Daylight Time
Apr. 28	2300Z	Apr. 28	7 P.M.	6 P.M.	5 P.M.
May 9	0200Z	May 8	10 P.M.	9 P.M.	8 P.M.
May 20	2000Z	May 20	4 P.M.	3 P.M.	2 P.M.
June 14 (10-40 WPM)	0200Z	June 13	10 P.M.	9 P.M.	8 P.M.
June 25	1300Z	June 25	9 A.M.	8 A.M.	7 A.M.
July 13 (35-10 WPM)	0200Z	July 12	10 P.M.	9 P.M.	8 P.M.
July 24	2300Z	July 24	7 P.M.	6 P.M.	5 P.M.
Aug. 11	0200Z	Aug. 10	10 P.M.	9 P.M.	8 P.M.
Aug. 23	2000Z	Aug. 23	4 P.M.	3 P.M.	2 P.M.
Sept. 9	0200Z	Sept. 8	10 P.M.	9 P.M.	8 P.M.
Sept. 21	1300Z	Sept. 21	9 A.M.	8 A.M.	7 A.M.
Oct. 15 (10-40 WPM)	0200Z	Oct. 14	10 P.M.	9 P.M.	8 P.M.
Oct. 27	2400Z	Oct. 27	7 P.M. (EST)	6 P.M. (CST)	5 P.M. (MST)

West Coast Qualifying Runs. Runs by W6OWP (prime), W6ZRU (alternate), will be transmitted simultaneously on approximately 3590/7090 kHz at 0400Z May 2, June 5, July 4, Aug. 7, Sept. 5 and Oct. 2. Please note that 0400Z represents 9 P.M. PST the evening before. (See other side for Qualifying Run Procedure).



July 22, 1985

North Coast Amateur Radio Club  
General Membership Roster

	<u>Call</u>	<u>Name</u>	<u>Street Address</u>	<u>City and State</u>	<u>Telephone</u>	
001.	KB8A	Dan Sarama	4607 E. 86th St.	Garfield Hts., OH 44125	-	UL
002.	WD8AJF	Dan Wadsworth	11028 Hawke Rd.	Columbia Station, OH 44028	1-748-2816	
003.	N8API	George Keco	P.O. Box 442	Brunswick, OH 44212	225-8709	
004.	K8ATQ	Rol Randolph	30301 Fairway Blvd.	Willowick, OH 44094	944-2083	
005.	N8ATV	Jerry Jarze	4325 Lake Rockwell Rd.	Shalersville, OH 44266	1-297-6251	UL
006.	K8AZ	Tom Lee	2701 Hampshire Rd.	Cleveland Hts., OH 44106	932-1366	
007.	W18BW	Shelly Shillingburg	667 Washington Ave.	Barberton, OH 44203	1-753-9314	
008.	KA8BJA	Frank Stevison	32137 Dickerson Rd.	Willowick, OH 44094	944-4843	
009.	W18KZ	Pete Harmon	35400 Euclid Ave. #A-204	Willoughby, OH 44094	951-9360	
010.	N8BO	Charlie Cook	2792 Friar Dr.	Parma, OH 44134	842-4232	UL
011.	KA8BPU	Ray Becker	5911 Bradley Ave.	Parma, OH 44129	842-7647	
012.	N8BTB	Steve Stevison	18001 Westport	Cleveland, OH 44135	267-0182	
013.	K8BVI	Art Anzic	28491 Elder Dr.	North Olmsted, OH 44070	235-4077	
014.	N8BYW	Bud Riess	317 Sheri Ln.	Brunswick, OH 44212	225-7417	
015.	W8CEJ	Mel Hoffman	5579 Nathan Ave.	Parma, OH 44130	885-3303	
016.	W8CHA	Steve Molnar	15721 Westdale Ave.	Cleveland, OH 44135	252-7019	
017.	K88CI	Tom Kryza	10620 Fidelity Ave.	Cleveland, OH 44111	671-7199	
018.	N8CKV	Paul Langendorfer	7784 Columbia Rd.	Olmsted Falls, OH 44138	235-1458	
019.	KA8CKZ	Bill Jones	11313 Linnet Ave.	Cleveland, OH 44111	941-3850	UL
020.	KA8CQY	Michelle Lantz	5641 Dunham Rd.	Maple Hts., OH 44137	662-4307	
021.	K8DDY	Bill Schreiber	6 Sunrise Blvd.	Olmsted Twp., OH 44138	235-3913	
022.	N8DMK	Russ Pratley	12711 Broadway	Garfield Hts., OH 44125	-	UL
023.	K8DTS	Bob Leskovec	25884 Highland Rd.	Richmond Hts., OH 44143	-	UL
024.	W88DTY	Tommie Murray	P.O. Box 08097	Cleveland, OH 44108	486-0033	
025.	N8DZO	Jack Zigon	P.O. Box 347001	Parma, OH 44134	351-2427	
026.	W8EFW	Paul Cornell	1340 Ford Rd.	Lyndhurst, OH 44124	442-7024	
027.	N8EIJ	Ken Poling	4707 Martin Dr.	North Olmsted, OH 44070	777-8785	
028.	K88EQ	Dick Stuart	26921 Elizabeth Ln.	Olmsted Twp., OH 44138	235-2323	
029.	W88ERA	Lee Georgia	5106 Montauk Ave.	Parma, OH 44134	888-5286	UL
030.	W8ETC	Len Hettinger	3087 W. 115th St.	Cleveland, OH 44111	251-5936	
031.	N8ETP	Tom Kopcak	1497 Canterbury Rd.	Westlake, OH 44145	871-6181	UL
032.	N8ETQ	Dan Harlan	3418 Stanfield Dr.	Parma, OH 44134	845-5442	
033.	N8ETW	Ernie Nagy	35892 Poplar St.	North Ridgeville, OH 44039	1-327-6849	
034.	N8ETY	Dave Kifer	3717 Woodway Ave.	Parma, OH 44134	459-0676	
035.	N8ETZ	Mary Nagy	35892 Poplar St.	North Ridgeville, OH 44039	1-327-6849	
036.	KA8EVS	Charlie Stien	4652 East 85th St.	Garfield Hts., OH 44125	-	UL
037.	K88EX	Tom Rudman	32651 Redwood Blvd.	Avon Lake, OH 44012	1-933-8753	
038.	W8FAZ	Joe Zelle	1227 Addison Rd.	Cleveland, OH 44103	431-6437	
039.	N8FCX	Ron Packard	4931 Wake Robin Rd.	Mentor, OH 44060	1-257-2541	
040.	N8FDY	Tom Wilkinson	1332 Mathews Ave.	Lakewood, OH 44107	521-9519	
041.	N8FEG	Pete Gramuglia	6380 Elmdale	Brookpark, OH 44142	676-9027	
042.	N8FGR	Wayne Pipoly	8775 Contee Rd., Apt 203	Laurel, MD 20708	1-301-490-9708	
043.	N8FKS	Don Summer	26915 Westwood Ln.	Olmsted Twp., OH 44138	235-6295	
044.	N8FKT	Bob Bassett	14032 Cayuga Court	Cleveland, OH 44111	671-3825	
045.	K88FQE	Pauline Wells	5955 Burns Rd.	North Olmsted, OH 44070	779-8999	
046.	N8FQQ	Tom Adams	11140 Aaron Dr.	Parma, OH 44130	885-1104	
047.	N8GJR	Jim Nestor	39114 Route 303	Grafton, OH 44044	1-355-8697	





048.	W8GNB	Ed Ehrbar	P.O. Box 61	Kelleys Island, OH 43438	1-419-251-8234
049.	N8GNL	John Jailer	5685 Hickory Trail	North Ridgeville, OH 44039	1-327-7088
050.	W3IGI	Bill Spring	389 Brantley Ln.	Brunswick, OH 44212	273-5723
051.	WB8IKQ	Steve Wolf	27132 Butternut Ridge Rd.	North Olmsted, OH 44070	777-1177
052.	KA8IMU	Tony Romano	4837 E. 84th St.	Garfield Hts., OH 44125	271-6954
053.	WD8INK	Ken Wiggenghorn	2134 Brown Rd.	Lakewood, OH 44107	221-9954
054.	WD8INO	Steve Ferraro Jr.	3417 Marmore Ave.	Parma, OH 44134	741-2547
055.	WBIO	Robert Allen	23305 Westchester Dr.	North Olmsted, OH 44070	734-0570
056.	WD8IQO	Milt Kujawinski	4235 W. 50th St.	Cleveland, OH 44144	749-5519
057.	WD8IRG	Van Winkle	16417 Shelby Dr.	Brookpark, OH 44142	267-9063
058.	WD8ISB	Dick Dell	8085 Wren Dr.	Macedonia, OH 44056	467-7733 UL
059.	N6JAM	Ron Lew	3880 Warrendale Rd.	South Euclid, OH 44118	932-4231
060.	WD8JMM	Alex Manuk	3125 West 11th Place	Cleveland, OH 44109	-
061.	KD8JQ	Don Jason	715 Twin Oaks Blvd.	Medina, OH 44256	1-723-5492
062.	WBKGA	Larry J. Stacik	12503 Carrington Ave.	Cleveland, OH 44135	941-4711
063.	WD8KHU	Mark Woodworth	20239 Bonnie Bank Blvd.	Rocky River, OH 44116	331-6347
064.	KC8KI	John Baddour	2801 Clague Rd.	North Olmsted, OH 44070	734-3778
065.	WD8KTC	Marie Johnson	6504 Edgehurst Dr.	Brookpark, OH 44142	676-5342
066.	KA8LIH	Karen Counter	22436 Fairlawn Circle #6	Fairview Park, OH 44126	-
067.	WD8LRZ	Larry Lanning	3528 Monte Vista Dr.	Brunswick, OH 44212	225-4607
068.	K8MDC	Fred Jones	8174 Olmway Ave.	Olmsted Falls, OH 44138	235-3260
069.	WD8MHR	Eric Bennedict	6423 Ridge Rd.	Parma, OH 44129	888-6435
070.	K8MO	Jeff Safran	17781 Walnut Dr.	Strongsville, OH 44136	572-3509 UL
071.	WA8MYX	Hal Herald	5985 Jaycox Rd.	North Ridgeville, OH 44039	1-327-0291 UL
072.	W8MW	Maynard Weston	4564 Park Edge Dr.	Fairview Park, OH 44126	734-4260
073.	WB8NAQ	William Reed	3334 Brookdale Ave.	Parma, OH 44134	741-7071 UL
074.	WA8NXT	Ferd Nye Jr.	31497 Hilliard Blvd.	Westlake, OH 44145	871-8098
075.	WB8NXT	Neil Johnson	6504 Edgehurst Dr.	Brookpark, OH 44142	676-5342
076.	WB8OGN	Jack Skinner	2221 W. 105th St.	Cleveland, OH 44102	631-7680
077.	WD8OMW	Glenn Christman	2327 North Ave.	Parma, OH 44134	661-7656
078.	K8OPV	George Hodapp	13101 Yager Dr.	Strongsville, OH 44136	238-7663
079.	WD8PBQ	Jay Rezabek	882 Wimbeldon Dr.	Medina, OH 44256	1-725-2171
080.	W8PEV	Jim Malone	31235 Avon Rd.	Westlake, OH 44145	835-1206 UL
081.	K8PPZ	Tom Wisnor	27869 Sherwood Dr.	Westlake, OH, OH 44145	835-2288
082.	WD8QAC	Al Dalglish	26919 Westwood Ln.	Olmsted Falls, OH 44138	235-3771
083.	K8QNK	Dick Scheuering	4867 Summerlane	Brooklyn, OH 44144	741-7121
084.	KD8QY	George Bringham	9239 Elsmere Dr.	Parma, OH 44130	845-5231
085.	K8RBV	Bob Morgan	376 East 329th St.	Willowick, OH 44094	943-6374
086.	WB8RGK	Tim O'Reilly	5515 Thornton Dr.	Parma, OH 44129	888-5618
087.	K8RSH	Chuck Early	5943 Burns Rd.	North Olmsted, OH 44070	777-1595
088.	WD8RZG	Don Winner	8927 Torrence Ave.	Brooklyn, OH 44144	749-6594
089.	K8RZP	John Pastor	322 Berea St.	Berea, OH 44017	234-4299
090.	K8SCI	Rick Wells	5955 Burns Rd.	North Olmsted, OH 44070	779-8999
091.	WD8SDP	Lin Shaw	7780 Lewis Rd.	Olmsted Falls, OH 44138	235-3912
092.	WA8SNI	Charlie Kontras	13709 Wainstead Ave.	Cleveland, OH 44111	252-2367
093.	KA8SNM	Cheri Collins	35400 Euclid Ave. #A-204	Willoughby, OH 44094	951-9360
094.	K9SSL	Mike Walker	1204 Tulip Ct.	Brunswick, OH 44212	225-1744 UL
095.	K8TKQ	Howard Wells	5955 Burns Rd.	North Olmsted, OH 44070	779-8999
096.	KA8TNE	Paul Tokar	1503 Wyandotte Ave.	Lakewood, OH 44107	221-3266
097.	KA8TQR	Dennis Minnick	1700 Brookdale Ave.	Parma, OH 44134	749-2365
098.	K8TTT	Dave Curry	887 E. 331st St.	Eastlake, OH 44094	942-5030 UL
099.	K8TTZ	Bob Mills	6716 Bonna Ave.	Cleveland, OH 44103	431-9492
100.	KA8TWK	Kenneth Korber	4120 West 227 St.	Fairview Park, OH 44126	734-5110 UL

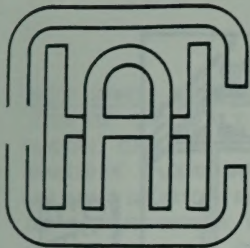




101. WB8UDA	Fred S. Szabo	6142 Eavenson Blvd.	Brookpark, OH 44142	433-1240
102. K8UHX	J D Csicsila	146 River Rd.	Hinckley, OH 44233	278-7904
103. WB8UPA	Russ Saepic	1861 Frost Circle	Brunswick, OH 44212	- UL
104. K8UTE	Basil L. Andrejko	19307 Maplewood St.	Cleveland, OH 44135	267-3433
105. K8VIC	Tim Hitesman	27909 Aberdeen Rd.	Bay Village, OH 44140	871-3055 UL
106. K8VJG	Ron Borkey Sr.	10699 Ridge Rd.	North Royalton, OH 44133	237-6718
107. K8WCK	Roy Glassco	4503 Azalea Lane	North Olmsted, OH 44070	779-1262
108. W8WXR	Roger Burgess	441 Bradley Rd.	Bay Village, OH 44140	835-8739
109. W8WYK	Mas Iyama	5769 Turney Rd.	Garfield Hts., OH 44125	662-0731 UL
110. AE8X	Jim Hartland	6429 Ridge Rd.	Parma, OH 44129	842-4137
111. AK8Y	Mike Cauley	26963 Westwood Ln.	Olmsted Falls, OH 44138	235-3107
112. KA8Y	Shirley Lantz	5641 Dunham Rd.	Maple Hts., OH 44137	662-4307
113. KW9Y	Don Hilderman	596 Canterbury Rd.	Bay Village, OH 44140	871-6024
114. W88YNX	Clyde Lorenz	P O Box 147	Clinton, OH 44216	1-882-3315
115. NB8Z	Larry Ferrone	2531 Canterbury Rd.	Westlake, OH 44145	835-9428
116. KB8ZA	Jim Baird	3110 Klusner Ave.	Parma, OH 44134	843-2442
117. KB8ZI	Dirk Gastaldo	14527 Bennington Dr.	Strongsville, OH 44136	238-2807
118. KB8ZK	Ed Zorn	4878 Autumn Ln.	Brooklyn, OH 44144	741-9174
119. WB8ZQH	Dan Dalessandro	P.O. Box 92	North Olmsted, OH 44070	243-4550







# 1985

## CLEVELAND HAMFEST BANQUET Saturday — SEPTEMBER 21st

\$19.00 Harley Hotel Ballroom, 17000 Bagley Rd., Middleburg Hts., OH — just East of I-71/Bagley Rd. Interchange. North from Ohio Turnpike, South from I-480.

Presentation and Guest Speaker DICK FEAGLER (WKYC TV-3), Cocktails 6 PM, Buffet Dinner 7 PM, Prizes. Reservations, contact: Barbara Ernest (N8DAD) at 327-3914.

## CLEVELAND HAMFEST & COMPUTER SHOW Sunday — SEPTEMBER 22nd — 8 AM

CUYAHOGA COUNTY FAIRGROUNDS, BEREA, OHIO

**Vendors:** Indoor: \$10 for 8', \$8 add'l. 8' (includes table(s) w/2 chairs ea.).

Set up: Saturday 12-5 PM, Sunday 6 AM on, indoor security provided.

Outdoor (Flea Market): \$4 ea. space, Open 6 AM, overnight parking available.

IN CASE OF RAIN, INSIDE FLEA MARKET SPACE WILL BE MADE AVAILABLE.

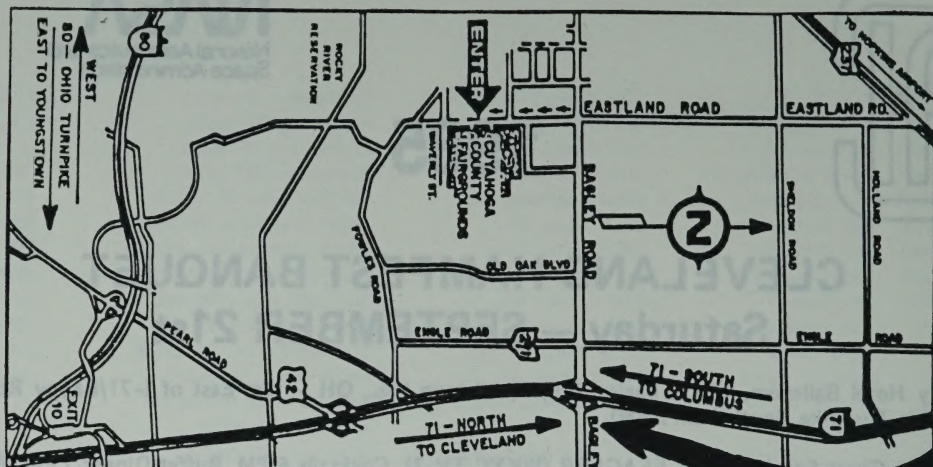
**General Admission:** 8 AM to 5 PM, \$3.50 at the Gate, \$3 advance, under 12 free.

For advance tickets or information, write to:

Cleveland Hamfest Assn., P.O. BOX 93077, Cleveland, OH 44101

- COMMERCIAL EXHIBITS
- SPECIAL NASA DISPLAYS
- PRIZES GIVEN ALL DAY LONG
- SPECIAL DRAWING FROM LAST YEAR'S TICKETS (WINNER MUST BE PRESENT).
- INTERESTING SPEAKER PROGRAMS: AMSAT — the latest news on PACSAT, OSCAR 10 & Ham Radio on the Space Shuttle. PACKET RADIO — Pete Eaton WB9FLW brings exciting information on "Packet Racket", TAPR News, and the TNC 2. ARRL FORUM — League Officials of Great Lakes Division present ARRL policies. News, and Views, given by W4OYI, AB8P, K8ND, and DX and more . . .
- NON-HAM AND LADIES' activities with Mini Arts and Crafts Fair All Day!!
- FREE AFTERNOON AUCTION.
- MOBILE CHECK-IN with W8QV on 146.52 Simplex, 0600 to 1200, Prize Drawing.
- ALL LEVELS OF AMATEUR RADIO LICENSE EXAMINATIONS will be handled on a walk-in basis. Examinations will start at 9 AM. Check at the CHA Booth upon your arrival for the time schedule of each class. You must bring the original plus a copy of your current license if upgrading. COST: \$4 (Check made out to ARRL/VEC). For more information, contact Dave Willemin (AI8M) 331 Courtland, Elyria, OH 44035 — Phone: 324-4574.
- LARGE FENCED-IN FLEA MARKET
- PLENTY OF PARKING ON THE GROUNDS
- MAIN PRIZES AT 3 PM (NEED NOT BE PRESENT)

## Featuring National Aeronautics and Space Administration and NASA Lewis Research Center Achievements



## HARLEY HOTEL OF CLEVELAND WEST

EASY ACCESS FROM I-71, I-90, I-480, AND THE OHIO TURNPIKE (EXIT 10). HEAD NORTH ON I-71 FROM TURNPIKE. HEAD SOUTH ON I-71 FROM I-90 & I-480. EXIT I-71 AT BAGLEY RD., GO WEST TO EASTLAND RD. (THIRD TRAFFIC LIGHT), TURN LEFT TO HEAD SOUTH ABOUT 1/2 MILE, ENTRANCE TO YOUR LEFT.



(FROM FCC NEWS - JULY 5, 1985) ENGINEERS FROM THE FCC'S DETROIT DISTRICT OFFICE, USING MOBILE RADIO DIRECTION FINDERS, CONDUCTED AN ENFORCEMENT CAMPAIGN IN THE DETROIT, MICHIGAN, METROPOLITAN AREA AGAINST ILLEGAL RADIO JAMMING OF A LOCAL AMATEUR REPEATER. THIS INVESTIGATION WAS INITIATED AS A RESULT OF NUMEROUS COMPLAINTS FROM HAM RADIO OPERATORS ABOUT DELIBERATE INTERFERENCE TO THEIR COMMUNICATIONS IN THE AMATEUR RADIO SERVICE (ARS). THE AMATEURS PROVIDE VOLUNTARY PUBLIC SERVICE ON THESE FREQUENCIES FOR SUCH PROGRAMS AS SKY WARN TORNADO WATCH AND THE RADIO CIVIL EMERGENCY SERVICE (RACES).

TWO OTHER OPERATORS INVOLVED IN THE DELIBERATE INTERFERENCE WERE KEITH MORIN OF SOUTHGATE, WHO RECEIVED A \$750.00 NOTICE OF APPARENT LIABILITY FOR UNLICENSED OPERATION, AND BERNIE B. SLOTNICK OF HARBOR SPRINGS, WHO RECEIVED AN OFFICIAL NOTICE OF VIOLATION, LOOKING TOWARD POSSIBLE REVOCATION OR SUSPENSION OF HIS ADVANCED CLASS AMATEUR LICENSE OR IMPOSITION OF AN ADMINISTRATIVE FORFEITURE UP TO \$5,000.00.

THURSDAY - 7:30 P.M.  
AUGUST 1, 1985  
EVERYONE WELCOME

"TALK-IN"  
ON 145.290

PORTER RD  
DOVER CENTER RD  
BROOKPARK RD  
I-480  
COLUMBIA RD  
RIDGE RD  
BUTTERNUT RD  
VICTORIA  
KEN. RDG.  
COUNTRY CLUB BLVD  
GREAT NORTHERN SHOPPING CENTER  
LORAIN RD  
GREAT NORTHERN BLVD  
BUURNS  
FITCH RD  
X = CUYAHOGA COUNTY PUBLIC LIBRARY  
NORTH OLMSTED BR  
27425 BUTTERNUT RIDGE

N  
E

North Coast  
Amateur Radio Club  
P.O. Box 30529  
Cleveland, OH 44130

145.290  
MHz

N.C.A.R.C.



## North Coast ARC Meeting

- \*\*\* JULY 28, SUNDAY - NORTH COAST BOARD MEETING - 4 PM AT GLENN'S QTH (WD80MW)
- \*\*\* AUGUST 1, THURSDAY - NORTH COAST GENERAL MEETING - 7:30 PM AT N. OLMSTED, OH.
- \*\*\* AUGUST 10, SATURDAY - NORTH COAST FOX HUNT - 7:00 PM AT N. OLMSTED, OHIO

NORTH COAST A.R.C. JACKETS SOME INDIVIDUALS HAVE EXPRESSED INTEREST IN PURCHASING A NORTH COAST JACKET. JACKETS ARE AVAILABLE AT COST. ALL ARRANGEMENTS FOR JACKETS SHOULD BE DONE DIRECTLY THRU: PETE GRAMUGLIA (N8FEG), PHONE 676-9027 (WEEKDAYS AFTER 4 PM).

DON'T FORGET - - - NORTH COAST A.R.C. HAS CODE PRACTICE 8 PM SUNDAY NIGHTS ON 145.290.  
- - - CHECK INTO THE NORTH COAST INFORMAL NET SUNDAY NIGHTS AT 9:00 P.M..